A. NORTHROP & Co

F. R. Patch
4 9
Mfg. Co.

PATENT PANELED

SHEET METAL CEILINGS,

We are the Pioneers.

So. 23d and Mary Sts.

PITTSBURG, PA.

1894.

PATENT PANELED SHEET METAL

CEILINGS AND WALLS.

Manufactured under original patents granted Albert Northrop, who was the first to conceive a practical idea of an Ornamental Steel Ceiling, making this the oldest house in the country manufacturing this finish; and having caused this to be the most popular material for interior finish and decoration on the market, we submit a few general styles with list prices, photo-gravures of some of our stock and several ceilings furnished and put up by us, with a few testimonials and references.

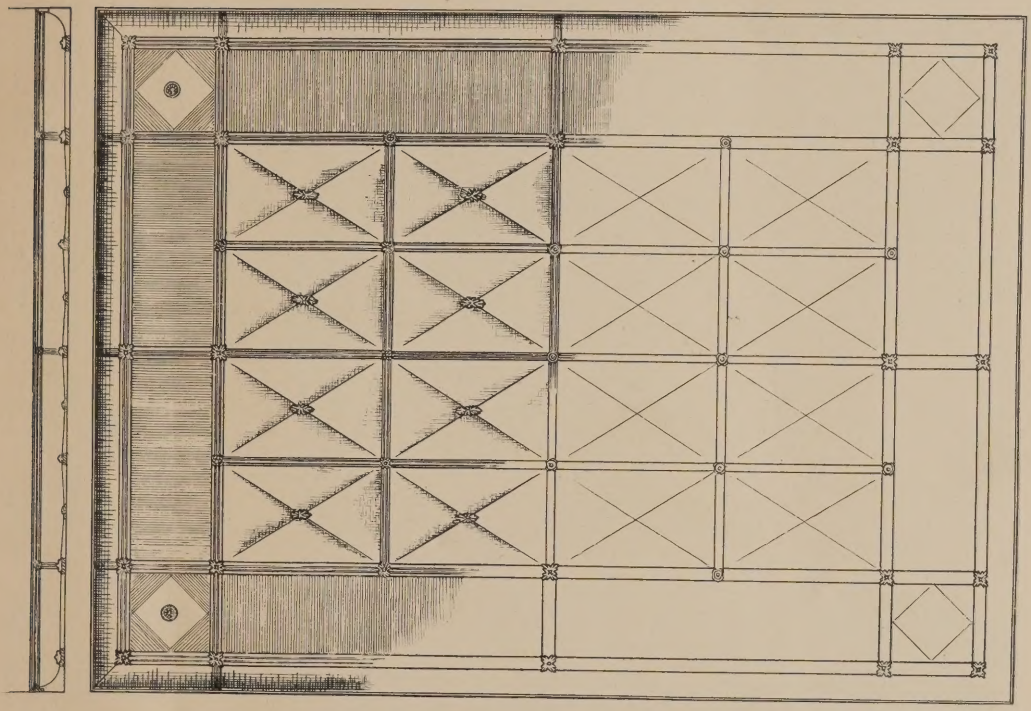
Our work is in stores and offices, asylums and hospitals, churches, halls and opera houses, where not only permanency and beauty is wanted, but also perfect acoustic properties, and this finish is fire-proof, which reduces cost of insurance, is not damaged by water in case of fire, nor flooding from over-flowing or bursted pipes, and in many cases is known to have stopped the spread of fire, and to save entire buildings from destruction. The weight is only about ¾ pound to the square foot which saves quite an item in large buildings, and it is tight, thus retaining heat in rooms.

Parties interested in building or repairing should send us plans, or sketches showing size and shape of the ceilings in view, state direction of joist, and whether for old or new building, mentioning any preference in style of panels and cornice, that we may estimate cost, and submit designs to scale for approval. We offer attractive designs in crimped, twilled, and smooth panels with contrasting borders, and mouldings which bring designs in relief, and for churches, halls and other large rooms, we make up special ceilings suitable. Rosettes fit mouldings, and cover intersections, and this plain paneling offers a ground for decoration that is permanent, and is much approved by fresco-artists, as it gives them opportunity for any scheme desired, in design and coloring.

The stamped panels form neat joints, and make a rich panel ceiling of simple design, and we also combine them with contrasting panels and borders in special designs, using mouldings when bolder treatment is desired. These stamped panels and embossed borders are easily decorated, making a handsome finish suitable for the best rooms. We also offer crimped and beaded ceiling, plain and in panels at low cost.

These ceilings are easily put up in new buildings, and over old plaster and wood ceilings, for in filling orders, we prepare them ready to go up complete, send working plan spaced and lettered, to locate pieces forming the ceiling on list attached, and full directions are sent for placing. Furring strips placed according to the plan, should be used in putting up the work, except for oval crimp in new buildings, and for covering fairly solid wood ceilings.

PLATE A.



Ceiling Design in Smooth Panels,

Raised one-half inch in the center, as per section, with rosettes; No. 2 S mouldings covering edges, fluted border panels with No. 2 mouldings, and cove cornice dropping eight inches, as per section.

This can be made up with No. 1 mouldings, and cove can be any depth desired, or we can use stock cornice. Embossed border, shown on page 13, makes a rich trimming for this style and can be used in place of fluted panels, or with them. These smooth panels with rosettes, make an elegant ceiling of simple design that is very popular.

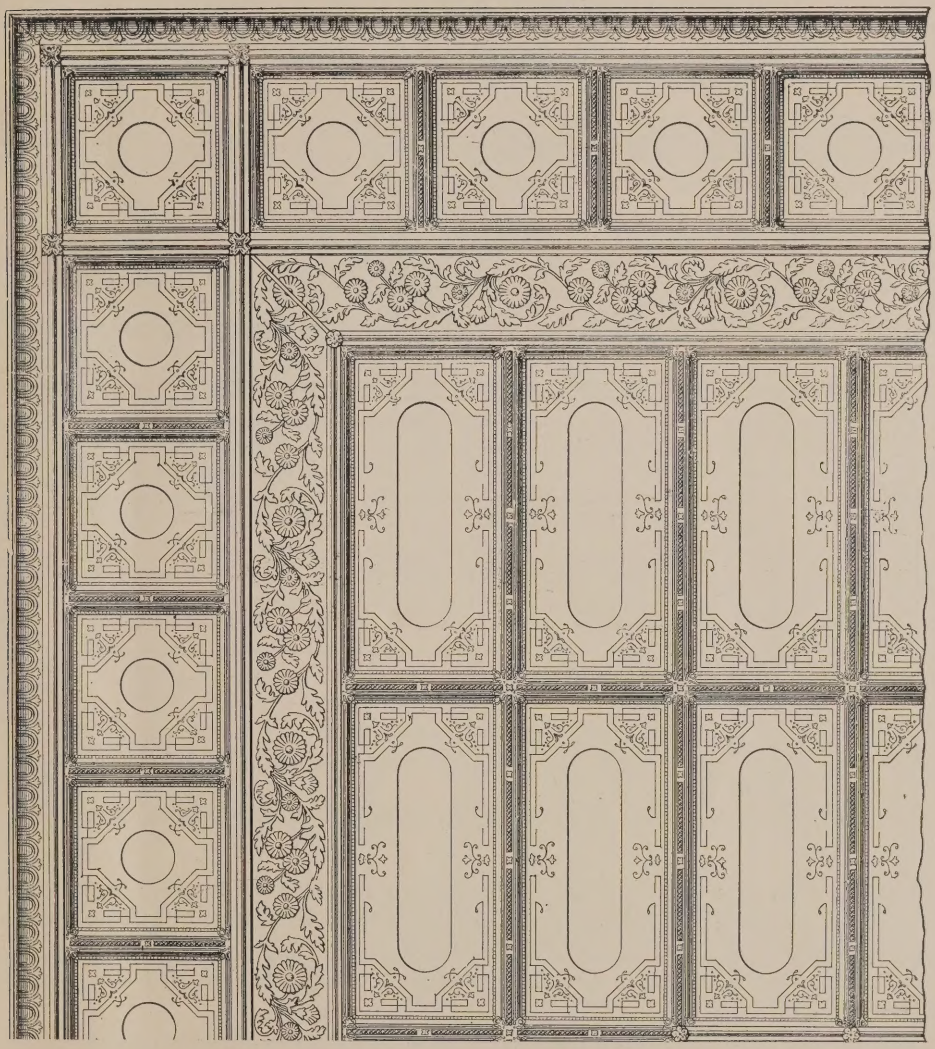
PLATE B.

Celling Design in Stamped Steel Panels

One inch deep, with No. 2 "Medium" stock cornice dropping three inches, as per section page 12 These panels make a neat joint, and when they do not just fit a ceiling, we use crimped (fluted) matting next the cornice. Another style of stock cornice can be used, or a cove when desired.

These panels can also be made up with smooth panel or embossed border, and we use them in combination with other panels and with mouldings in special designs.

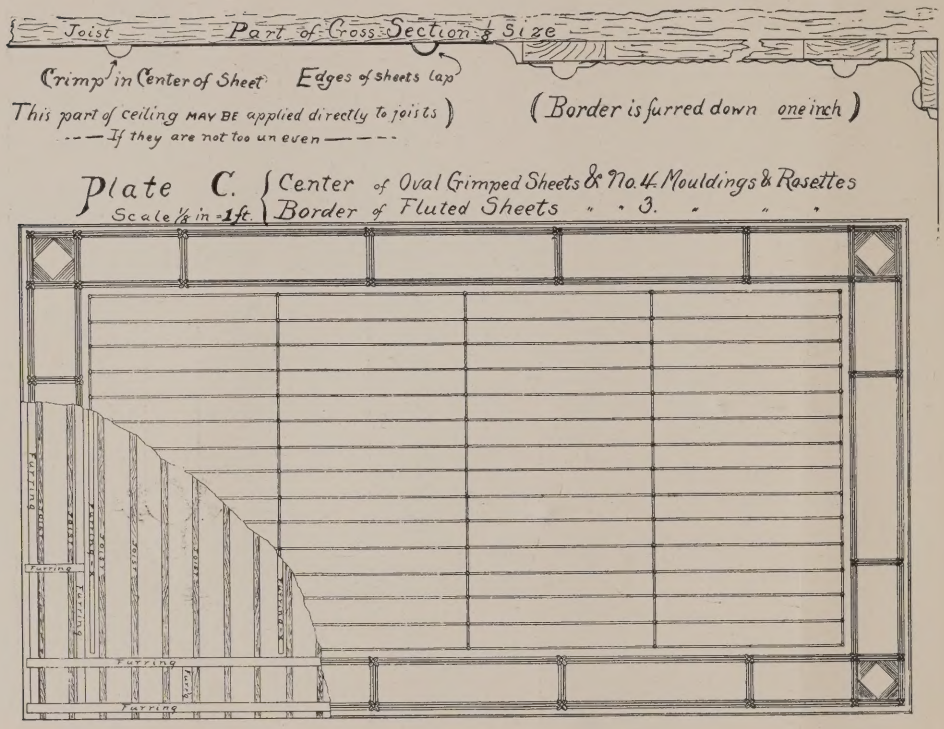
PLATE B-SPECIAL.



Ceiling Design in Stamped Panels,

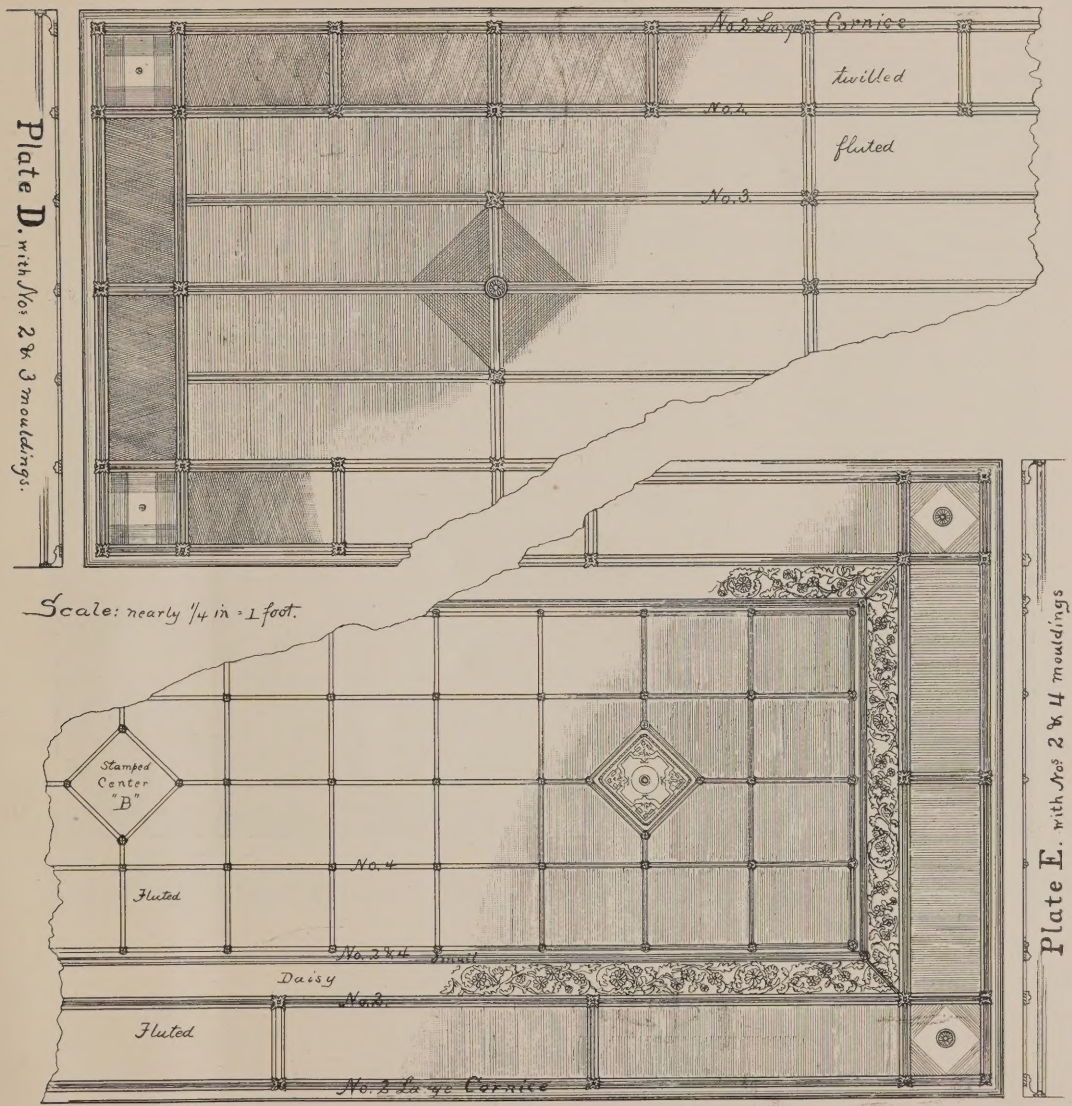
Style B, with embossed Daisy band, horseshoe cove cornice six inches deep, and No. 2 border mouldings. Large center pieces for chandeliers can be arranged.

PLATE C.


Joist
Part of Cross Section & Size
Crimp in Center of Sheet
Edges of sheets lap
This part of ceiling MAY BE applied directly to joists
If they are not too un even
(Border is furred down one inch)
Plate C.
Scale ½ in = 1 ft.
Center of Oval Crimped Sheets & No. 4 Mouldings & Rosettes
Border of Fluted Sheets " " 3. " " "
Furring
Furring
Furring
Furring

This makes a cheap ceiling to put on the joist, as shown in section, with furring strips on the border only, and if the joists are level the finish is very neat, but where they are uneven, we advise using furring throughout.

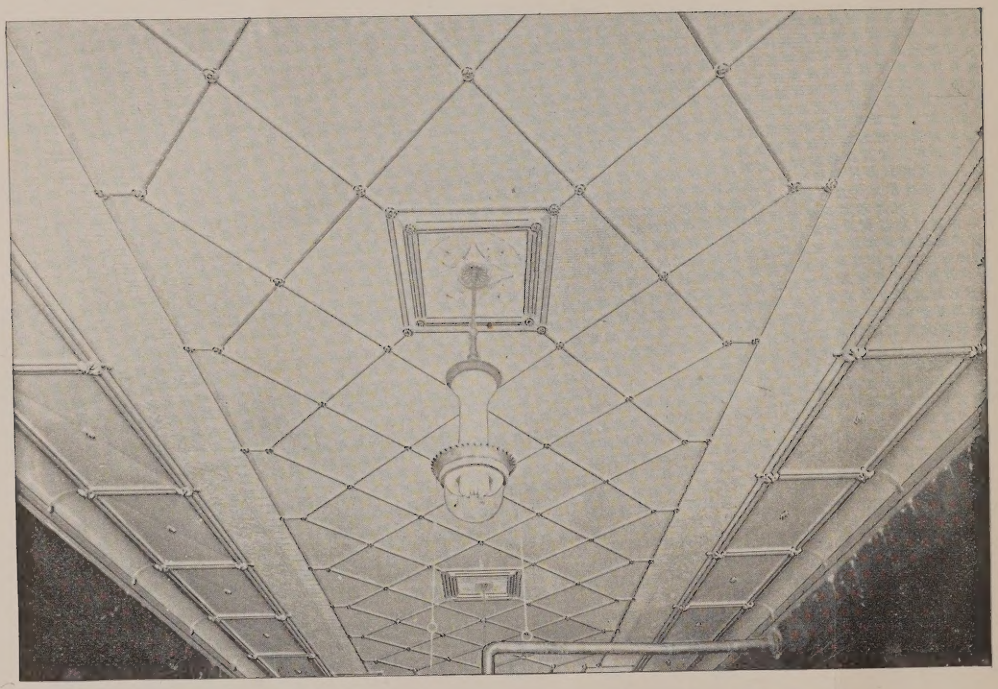
The contrast offered here in fluted panel border is very pleasing, making this a popular style at low cost.



Ceiling Designs of Styles Marked.

Can also be made with other stock mouldings and style of cornice. The square panels in Plate E could be left smooth, or be twilled in place of fluted, and Plate D could be trimmed with embossed band and center pieces.

PLATE E-SPECIAL.

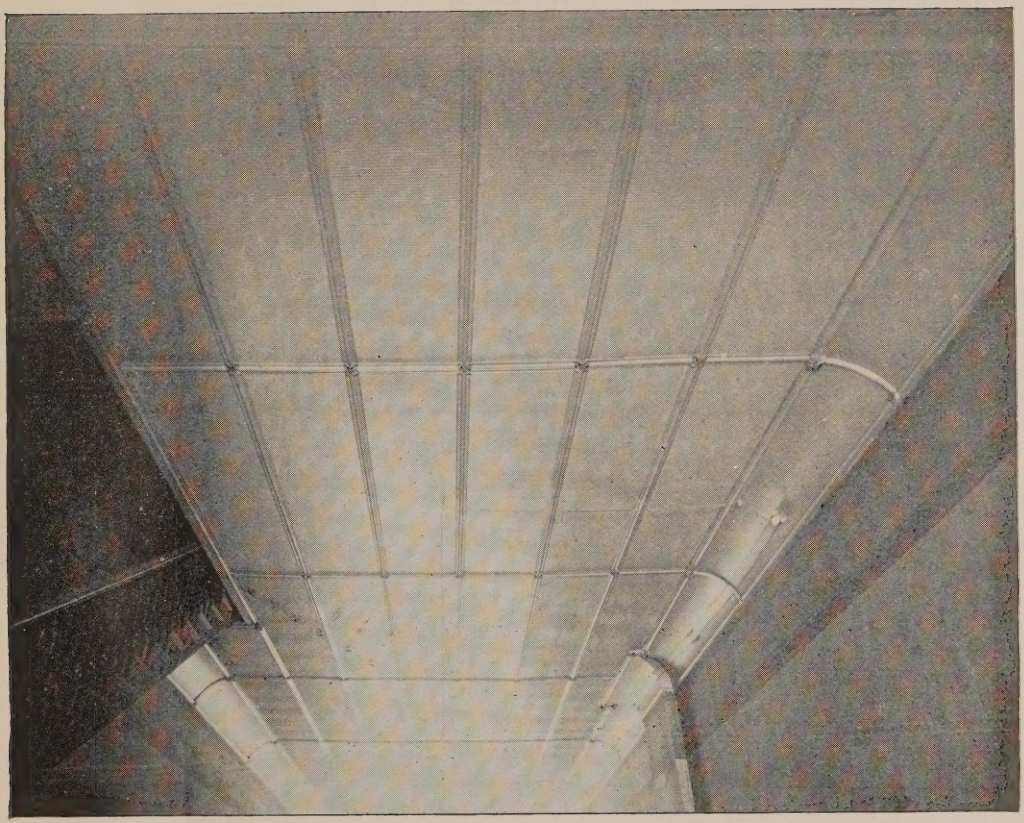


Ceiling Design in Crimped (Fluted) Diagonal Panels

With No. 4 moulding, embossed center pieces for lights, Daisy and Horseshoe band and smooth panel border, with No. 2 mouldings and cove cornice.

This can be made up with crimped in place of smooth panel border, and other styles of cornice and mouldings. We use the diagonal panels in a large variety of designs, subdividing with special division mouldings into large panels, and special designs for large ceilings.

PLATE F 2.

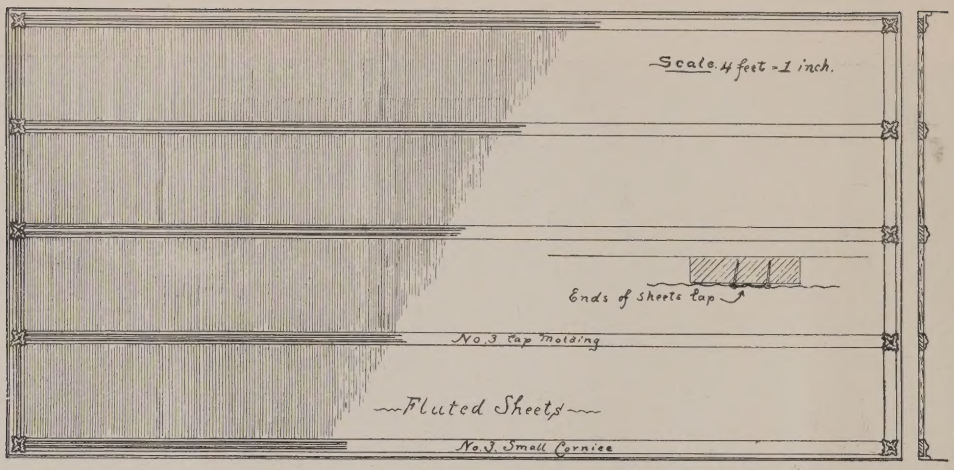


Ceiling Design in Crimped Paneling,

With No. 3 moulding. We show cove cornice here, but unless same is preferred we always finish with "small" No. 3 stock, which is cheaper to put up.

The ceiling is neat and attractive without being expensive in design, and very popular for plain rooms in schools, hospitals, etc.

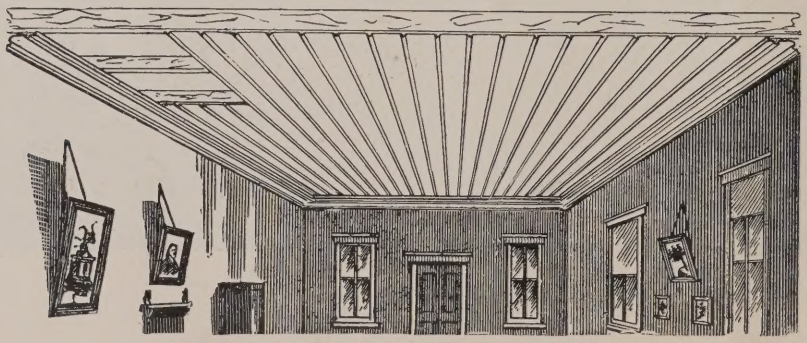
PLATE F.



Plain Fluted Ceiling,

With No. 3 mouldings covering edges and ends lapping as marked. This is same as F 2, omitting cross mouldings.

OVAL CRIMP.



Plain Beaded Ceiling,

With No. 2 S stock cornice, can be put on the joist without furring and makes the **cheapest ceiling.** No mouldings are used, for the crimps join nicely, and the ends of sheets when lapped from the light, are not noticed.

Ceiling can be made with No. 1 crimp, page 13, and cornice moulding the same way, but this should be put up with furring for a neat finish.

PLATES M. AND N.

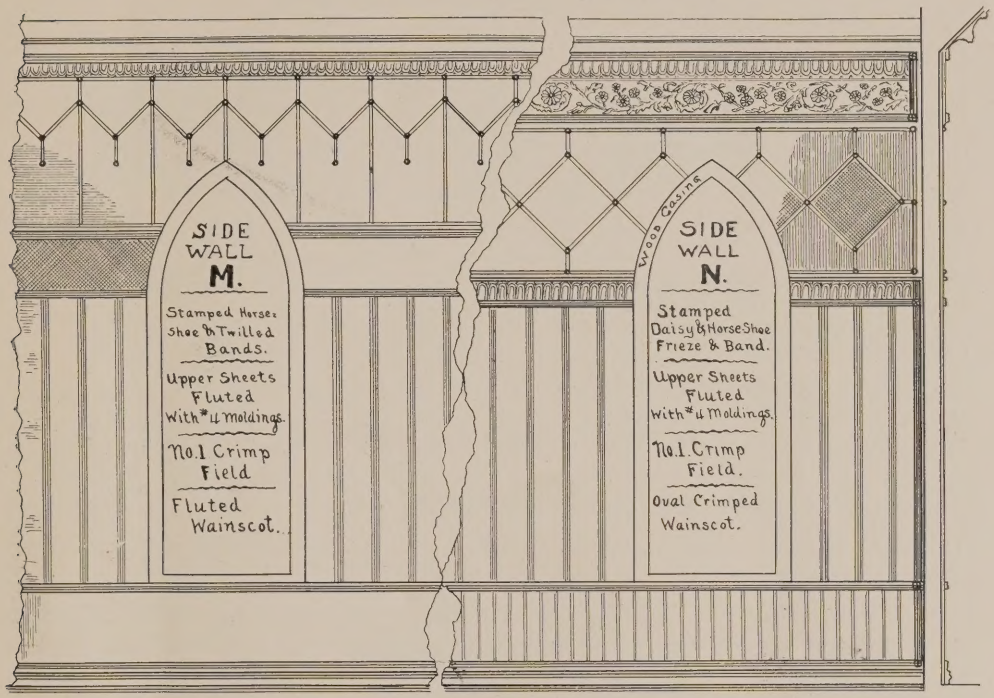
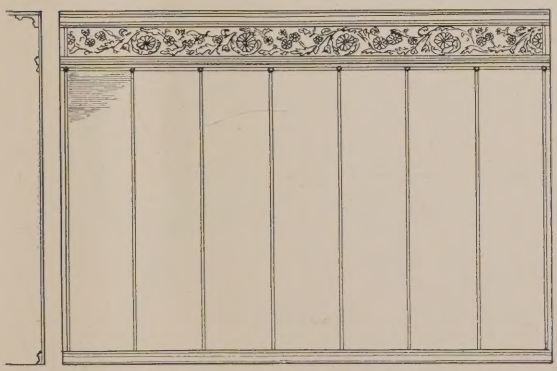

SIDE WALL M.
Stamped Horse Shoe & Twilled Bands.
Upper Sheets Fluted With #4 Moldings.
No. 1 Crimp Field
Fluted Wainscot.
WOOD CASING
SIDE WALL N.
Stamped Daisy & Horse Shoe Frieze & Band.
Upper Sheets Fluted With #4 Moldings.
No. 1 Crimp Field.
Oval Crimped Wainscot.

PLATE G.

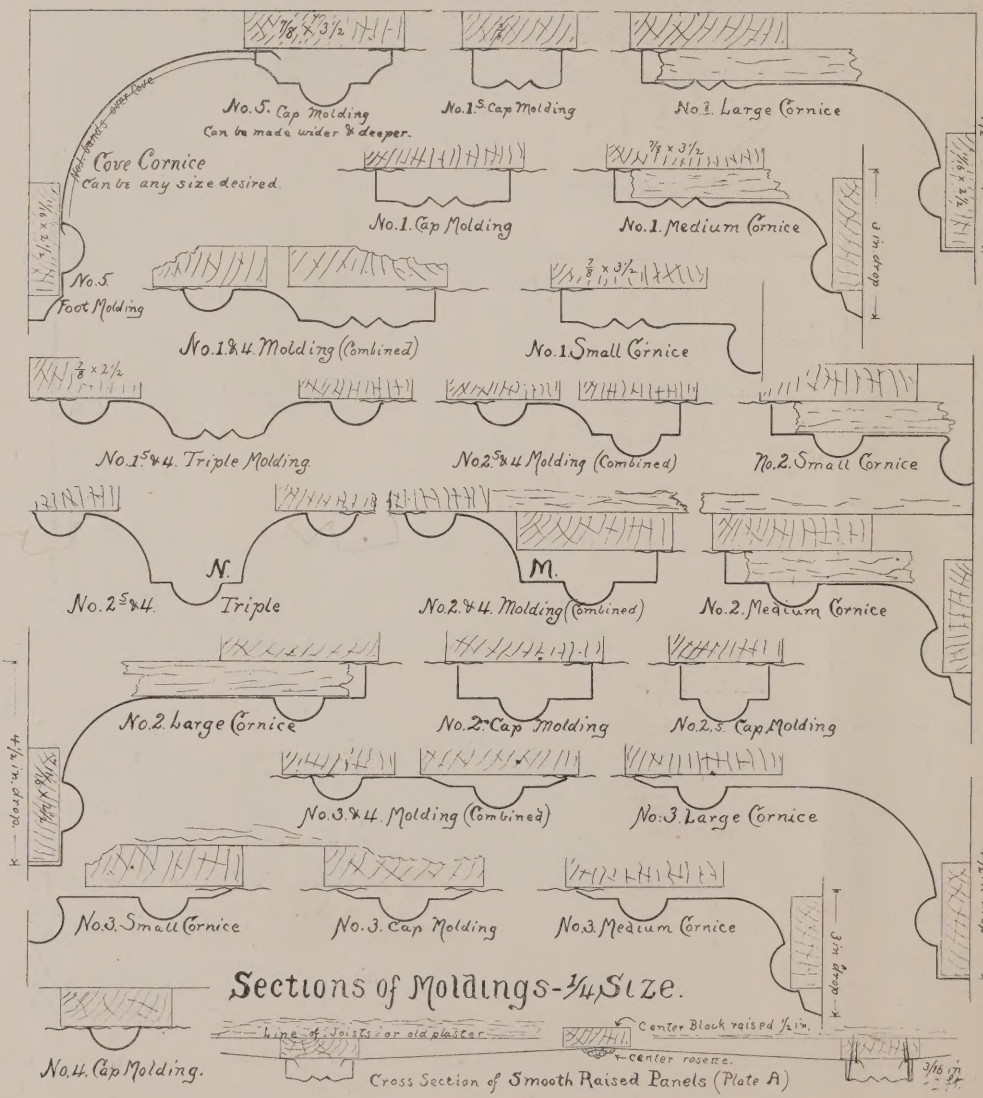


Styles M. and N. are designed for high rooms, churches, halls, etc., and made up with border and base mouldings, as per section, make a neat finish.

Style G. shows crimped walls with No. 4 mouldings, embossed Daisy border, with suitable border and base moulding, making a nice finish for ordinary rooms in stores, schools, hospitals, etc.

This makes a tight finish that is fire-proof and decorative.

STOCK CORNICE AND MOULDINGS.



ROSETTES.

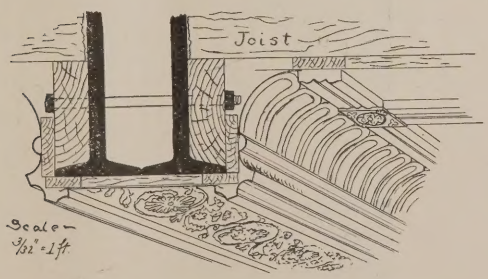
No. 1 A. No. 1 B. No. 1 C. No. 2 No. 3. No. 4. Leaf.

These rosettes are made to fit mouldings of the same number, covering intersections and are cast steel.

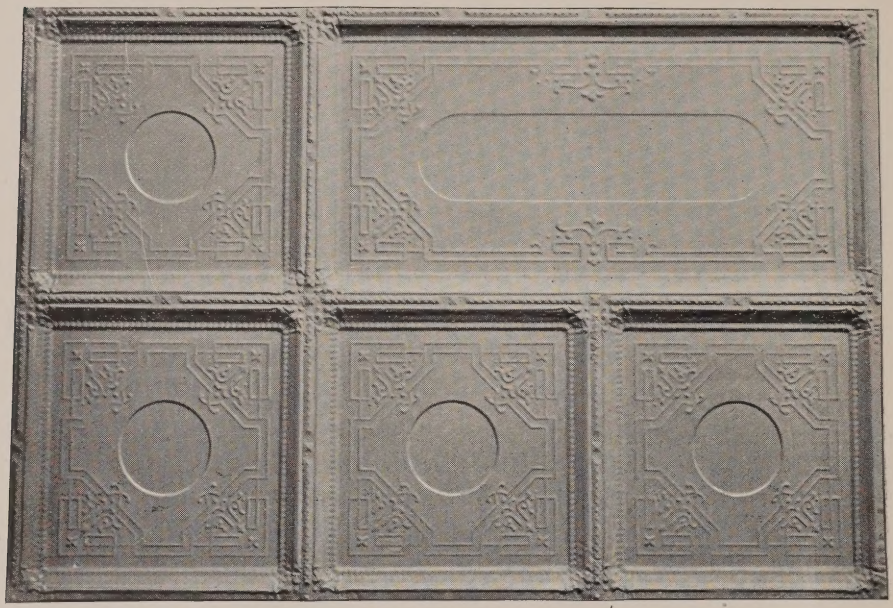
We show our stock cornice and mouldings, 1/4 size, with rosettes to correspond and make many special styles in division mouldings, foot mouldings, large cornices and border mouldings. The cove cornice shown, which drops six inches, is crimped light, and forms a neat joint, but for handsome designs we generally send bands to cover joints. This can be deeper when desired, and the border and foot mouldings are made to correspond with the style of ceiling used.

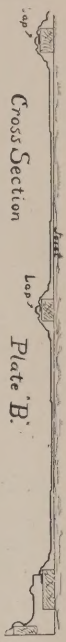
On pages 12 and 13 are photo-engravings of some of our stock, which with the mouldings and cornice is made of smooth rolled sheets painted one coat light gray, both sides. The stamped panels and embossed border are mild steel No. 29, and all other is semi-steel No. 28. The stamped panels form an enriched moulding one inch deep and four inches wide as per section, which makes a neat joint and no extra moulding is needed for a neat finish, but are used when bolder treatment is desired.

Notice sections showing smooth panels raised one-half inch.



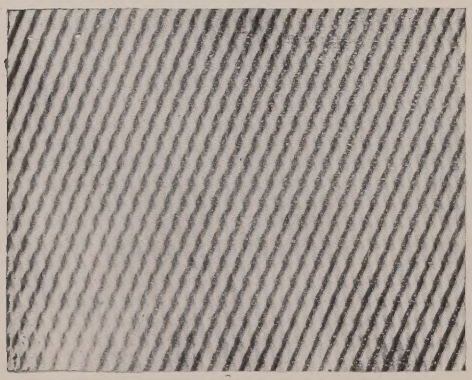
We show one style of girder casing made with embossed Horseshoe cove cornice, Daisy band, and corner mouldings shown. Other styles are made to correspond with designs for ceiling.



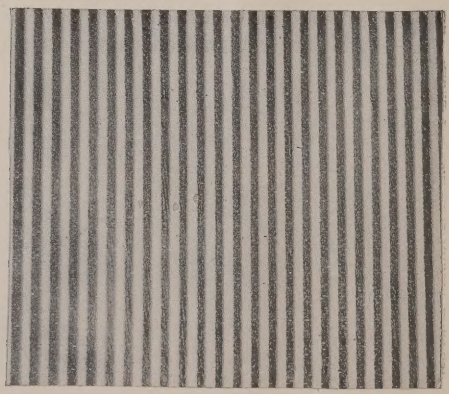


Stamped Deep Panels B and Section.

These are made to cover 2x2 and 2x4 ft. and are used together in various designs, or with contrasting panels and borders in special designs.



TWILLED.



CRIMPED (FLUTED).

Crimps are one-half inch from centers, and run across the sheets which lay flat, and are twenty-four, twenty-six and twenty-eight inches wide by ninty-six inches long in stock.

Patent Paneled Metal Ceilings,

Manufactured by

A. NORTHROP & CO. = = Pittsburg, Pa.

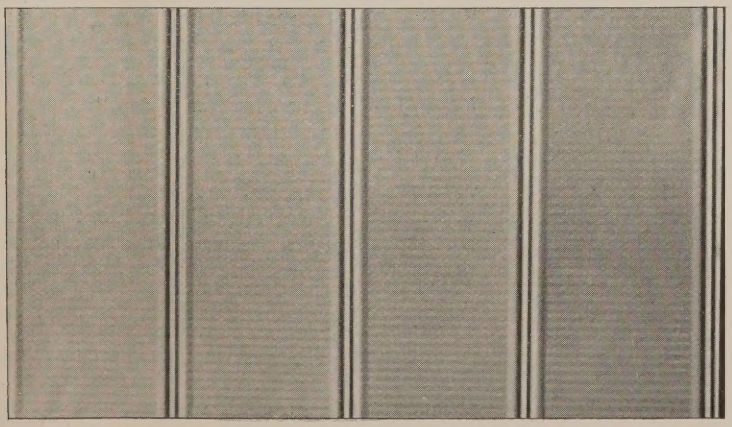
Shallow Stamped Steel Plates.

Laying $27\frac{7}{8} \times 27\frac{3}{4}$ inches.

STYLE O.

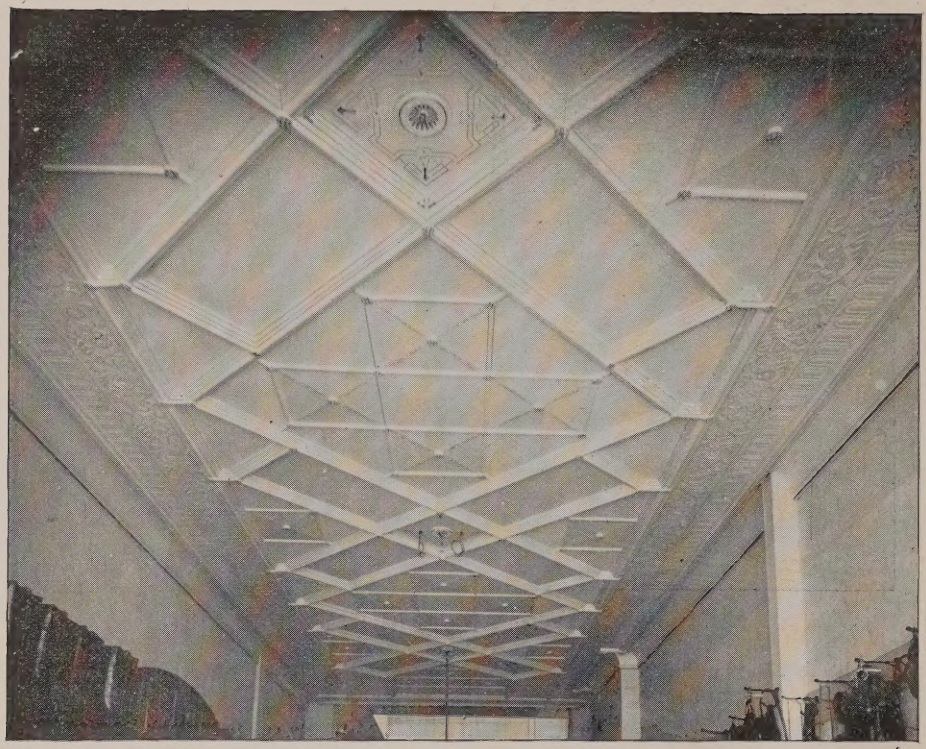
Steel Embossed Border

Made eight feet long and can be used in whole or in part. The Horseshoe pattern makes a handsome cove cornice six inches deep.



No. 1 Crimp Sheets

Make a nice finish for walls and are also used for ceilings. This is made in sheets laying 27x95 inches, with one crimp lengthways in the middle, and on each edge to join neatly.



Ceiling put up in Society Hall,

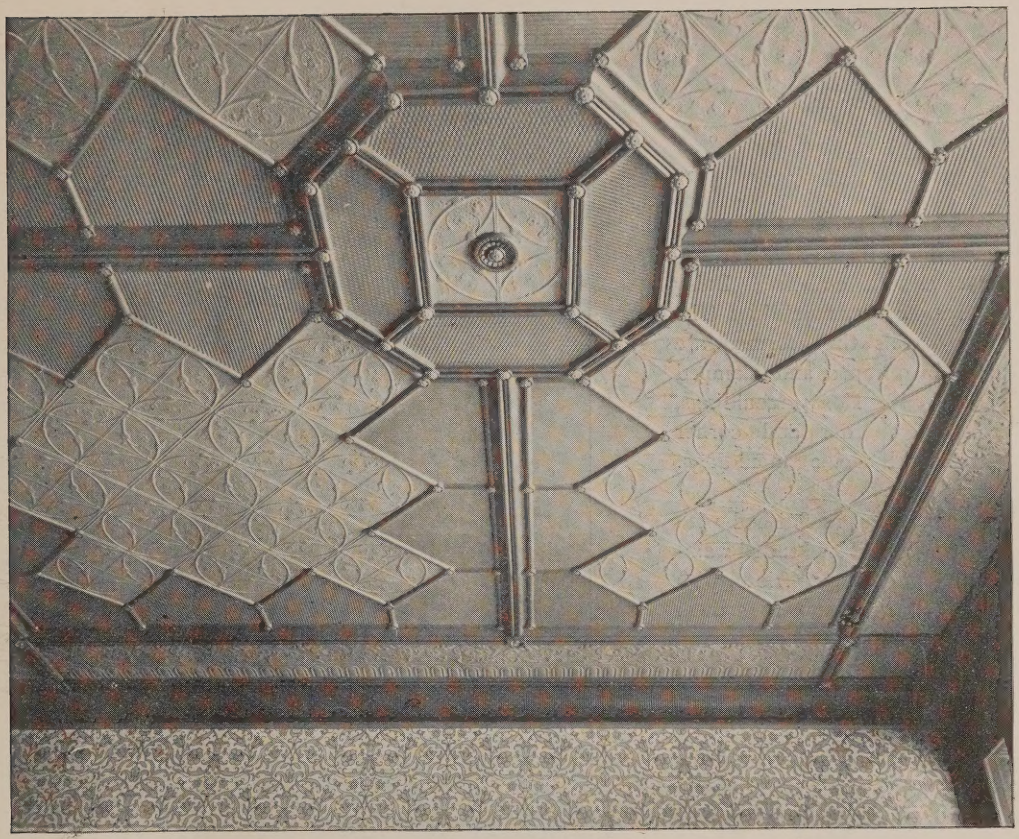
In twilled panels with special heavy mouldings, crimped and smooth panel design with No. 4 mouldings, embossed Daisy and Horseshoe border lowered two inches to depth of special mouldings, with cove cornice. A bold design with panels and border offering a pleasing contrast, and especially suitable for a large high room.

NOBLE D. LARNER, Secretary Masonic Hall, Washington, D. C., writes to J. Hillingast, agent: "The four iron ceilings placed by you in stores of Masonic Temple, this city, have met our most sanguine expectations and proved satisfactory in every particular. A store room, in our opinion, should have no other ceiling, especially where cleanliness is an object.

A. NORTHROP & CO.

Gentlemen:—After waiting for the full completion of the paneled metal ceiling furnished by your house for our City Hall, at Brewer, we are more fully prepared to express our entire satisfaction and pleasure in the design and beautiful appearance it presents. The material is fully up to our expectations, and the workmanship performed in placing and following out the design meets the general approbation of the committee in all respects.

DR. H. F. TEFFT, Chairman, Bangor, Me.



Part of the Ceiling in the Savings Bank at New Bethlehem, Pa.,

In stamped steel plates with fluted matting, No. 4 and special division mouldings, style N, center piece in stamped and twilled panels, and embossed border with M mouldings and cove cornice.

A rich design for a high ceiling of moderate size.

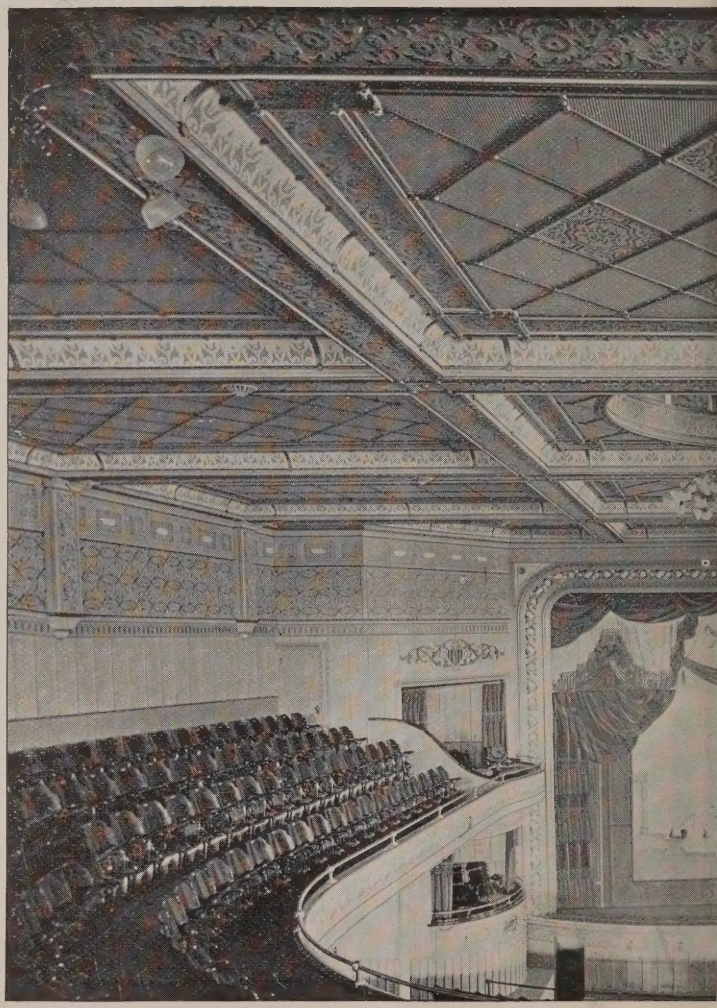
MR. E. C. THOMPSON writes of the bank ceiling at Edinburg, Ind.: "The ceiling makes a handsome appearance and was easily put up by the mechanics following directions."

H. E. BROWN, Cashier of Genessee River National Bank, Mount Morris, N. Y., writes: "The ceiling is nicely put up; it is the finest in Livingston County, and a beauty."

Ceiling is divided by 14x14 inch girders, finished with crimped cove and embossed Daisy band and corner mouldings. The large panels thus formed are made in crimped and stamped panels with No. 4 mouldings, embossed border and corner pieces, with No. 2 mouldings.

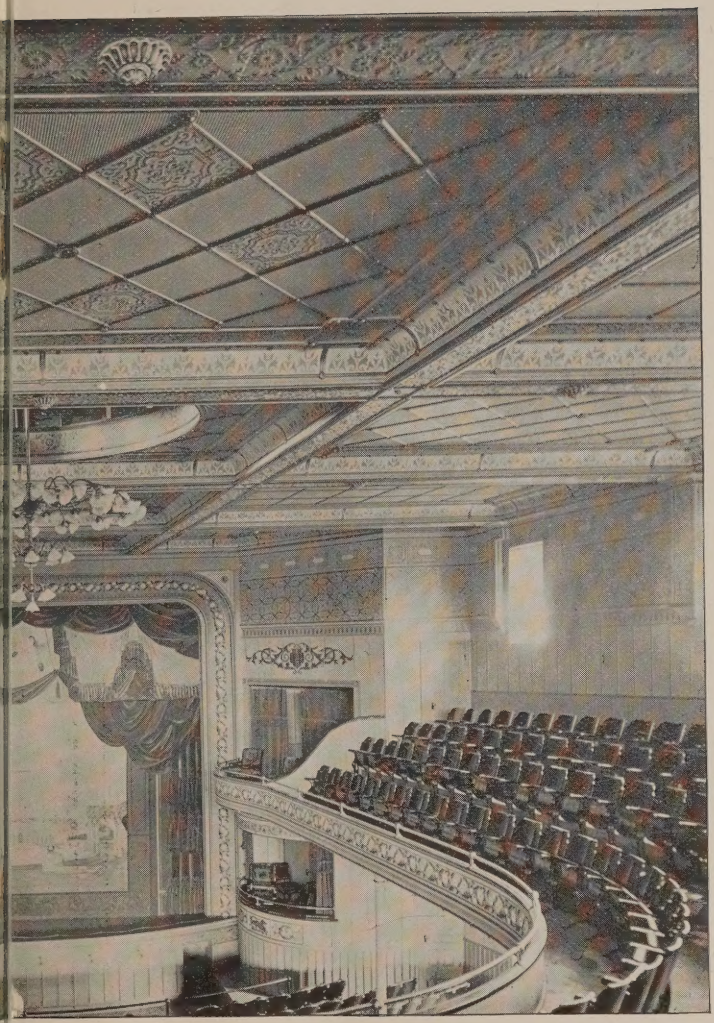
The walls are finished with No. 1 crimp field, beaded wainscoting and stamped frieze, with false pilasters made as shown. The proscenium and gallery rail are enriched with embossed work and suitable mouldings.

The dome and under the gallery is finished in crimped and stamped panels, designed to conform to their peculiar shape.



Interior of Mr. Howe's Opera House, 65x100 fee

JAS. CAMPBELL, City Clerk of Pasadena, Cal., writes: "The metallic ceiling furnished by you for our public library has given perfect satisfaction, both as to appearance and durability, and we consider the same much ahead of plaster ceilings."

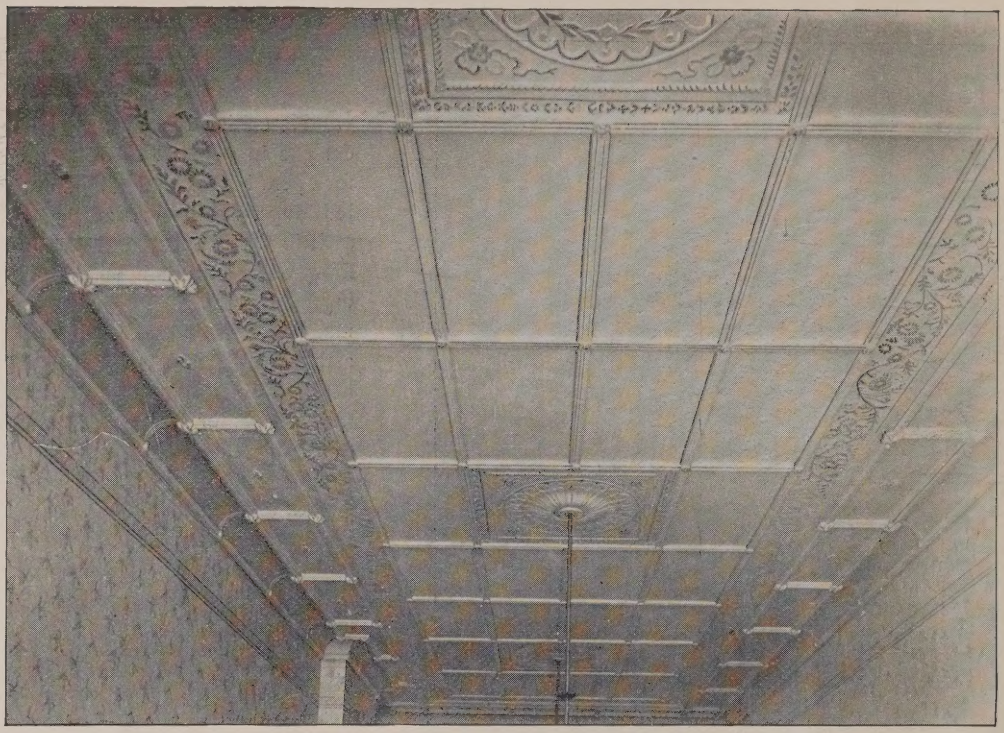


at St. Johnsbury, Vt., entirely finished by us.

No ceiling is superior to our designs in paneled sheet metal for opera houses, and all public buildings, where a durable and artistic finish is desired, that is fire-proof. For such large ceilings, unless divisions are already made in building, we generally arrange large panels by special heavy division mouldings, lowered bands or casing for false girders; which panels can be of elaborate or plain style as preferred, and if stamped paneling is used, same can be easily decorated, or our plain ceiling can be handsomely decorated by the artist according to his taste and ability. Our wall finish is of special value here, owing to its heat-retaining and fire-proof qualities, and we can offer a variety of styles.

We are pleased to submit special designs for such rooms, and hope that plans, or sketches showing size and shape of ceilings and walls, will be sent us.

REV. T. J. RYAN, pastor, writes: "It affords me great pleasure to testify to both good work and design, furnished by you, in putting ceiling and walls in St Philip's Church at Columbus, Mich., which is now entirely renovated, and is admired by all."



Store Ceiling put up in Zanesville, O.,

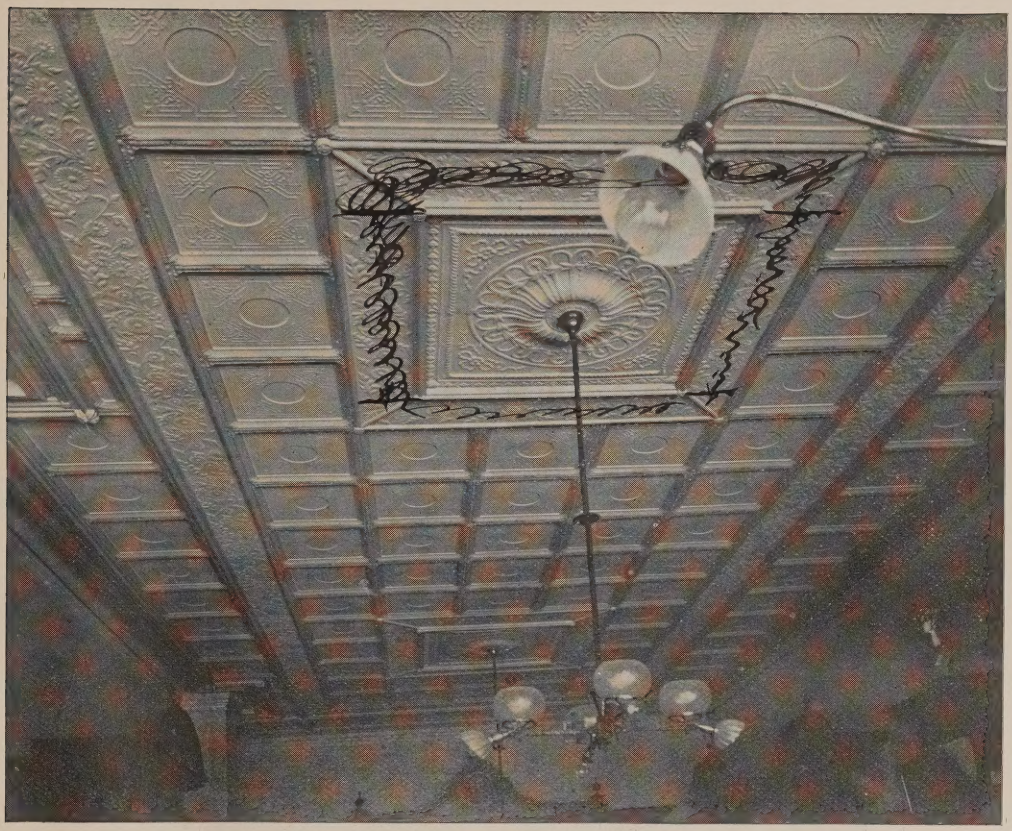
For R. D. Schultz, Esq., by local carpenters, in twilled panels with No. 1 S mouldings, smooth panel border with No. 2 mouldings, special stamped center pieces and Daisy band, with cove cornice.

A handsome panel ceiling suitable for a business house, school or audience room.

HAMILTON & MILLIKEN, of Traverse City, Mich., write: "In again ordering additional ceiling for our building would say, that during the past year our ceilings have been admired by all. We gave them three coats of paint in three colors, and to-day they are fresh and pleasing to look upon. Having studied the matter of cost and economy we would under no consideration use anything else."

SHEP BOWMAN, builder, at Knightstown, Ind., writes: "Enclosed find draft in payment of ceiling. I have not opened the boxes yet, but feel confident they are all right from past experience, for this is the fourth ceiling in town and I have put up three of them."

THE NORTHROP Patent Iron Ceiling, put up in our publication office last December, was applied without at all interfering with the business of the office. The ceiling is neat and handsome, and we are entirely satisfied with it. THE NEW YORK SUN.

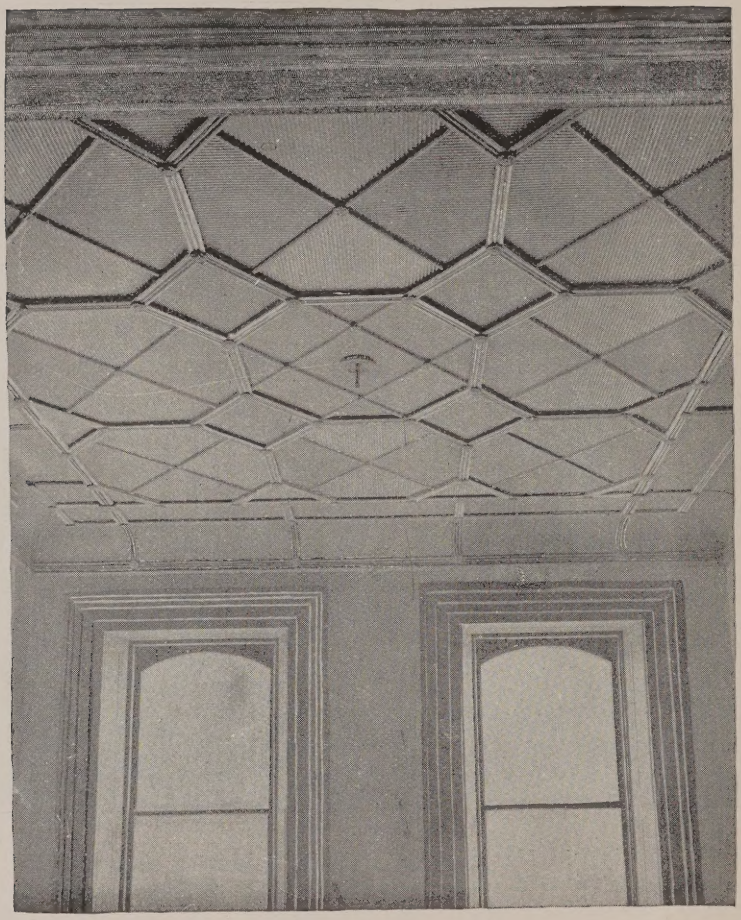


Ceiling in Messrs. Heath & Co.'s Jewelry Store,

At Newport, R. I., put up by local carpenters, in stamped deep panels B two feet square, with special embossed center pieces and Daisy bands, No. 2 mouldings on border, and No. 4's inside Daisy band and around centers, making a rich panel ceiling.

J. C. STITT, architect, Norfolk, Nebraska, writes of the ceiling of special design sent for Dr. G. W. Wilkinson's large store building: "The ceiling presents a very handsome appearance, and is satisfactory in every respect. Can send you orders for two more store rooms soon, as the plaster is falling off."

MESSRS. MARTIN & EPLEY, of Franklin, Pa., write: "We think the iron ceilings bought of you eighteen months ago saved our store room from complete burning out, as the fire had quite a hold on the fixtures in our room, but could go no further. Give us bottom figures on enclosed diagrams."



Ceiling put up for Dr. Dake, Pittsburg.

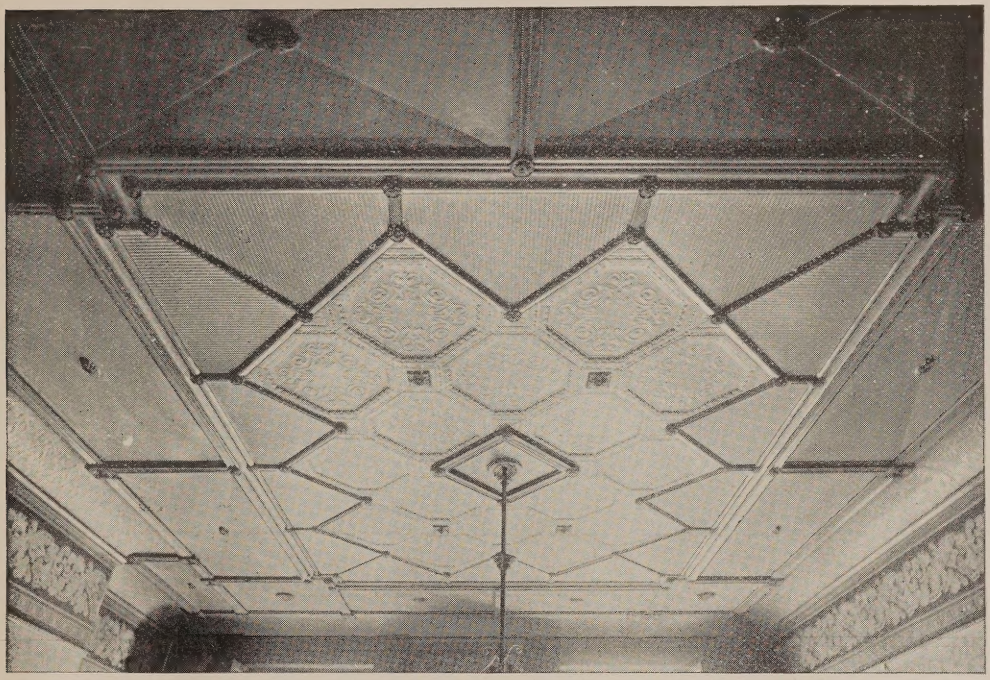
Crimped and twilled panels with Nos. 1 S and 4 mouldings, cove cornice with No. 1 bands.

A. NORTHROP & Co. NEW BRIGHTON, PA., Feb. 17th, 1890.

Gentlemen.—I have intended for some time past writing to you in regard to the iron and embossed metal ceilings you put into my house. I am greatly pleased with them, and if building a house would have no other kind. I may want, in the spring, some other rooms done in the same material.

Yours very truly,

W. P. TOWNSEND.



Ceiling in Dr. Shaw's Front Office,

On Wylie Avenue, Pittsburg, of stamped steel plates, crimped matting with No. 4 mouldings, smooth panel border with No. 1 mouldings, and embossed Leaf cove cornice.

Rev. W. M. Taylor, of Mt. Jackson, Pa., writes of the ceilings furnished for his parlor and dining room. 'The parlor and study ceilings are now up and painted complete. They are beauties and will be 'a joy' as long as we live, if not forever. Every one who see them is delighted and we are more than satisfied. Accept our most cordial thanks for your very handsome and decorative work."

A. NORTHROP & Co. April 8, '89. WILLIAMSTOWN, MASS.

Gentlemen :—Your material for iron ceiling has arrived and our old ceiling is greatly improved, and we are glad to have found something which is ornamental also. It is much admired by those who have seen it, and we shall do all we can to have other orders for you. Very respectfully, MRS. E. R. MCKOWN.

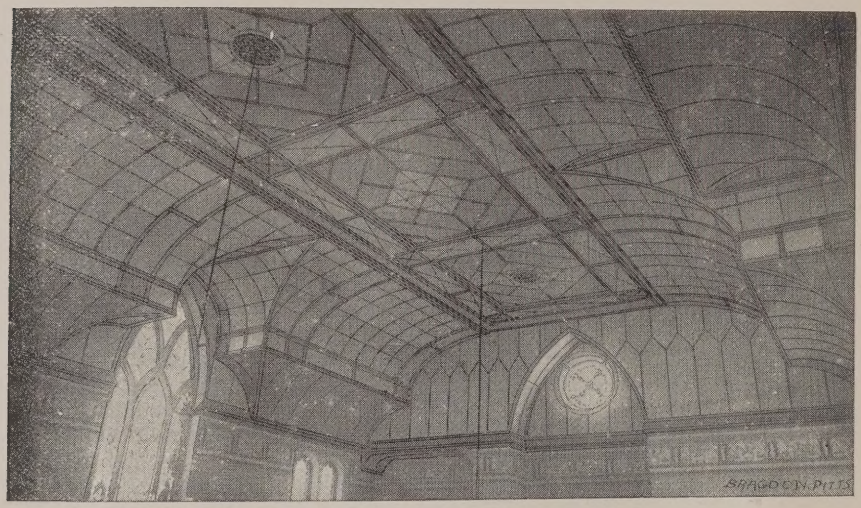
SAN JOSE, COSTA RICA, CENT. AM., Nov. 26th, 1886.

MESSRS. A. NORTHROP & Co., Pittsburg, Pa.

Dear Sirs:—I take pleasure in advising you of the safe arrival of the ceilings some time ago, which are all now put in their place. I can only say that whoever sees them is delighted with them, and I do not doubt for a moment that they will become quite popular here.

The parts arrived complete and well fitted, so that, although we had no experience with them, we had no trouble in putting them up. If my opinion of your ceilings be of any advantage to your business you will please refer to me whenever it may suit you, and allow me to thank you for the care bestowed on my small order.

Yours truly, F. F. HERMANN.



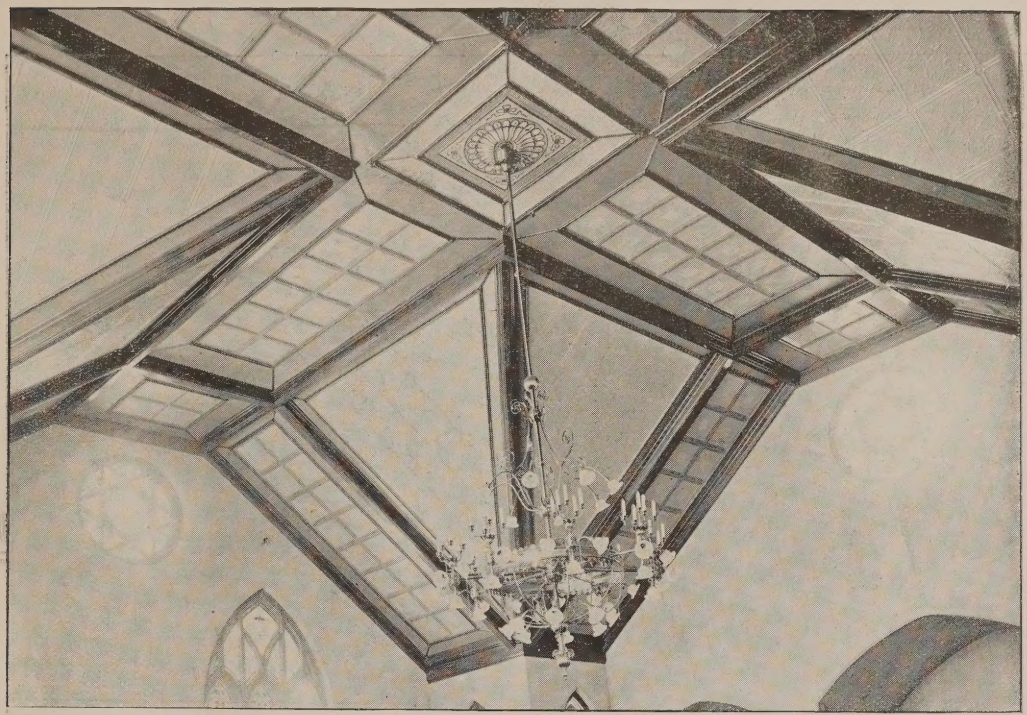
Crimped and Smooth Panel Ceiling

In the M. E. Church at Naples, N. Y., with mouldings which bring design in relief.

The popularity of sheet metal for church interiors, demonstrates its superiority over other material, and our trade in this line is rapidly enlarging; for we offer a tight finish of handsomer designs than can be made of any other material at the same cost, and suitable alike for arched, gothic and flat ceilings. The crimped ceiling holds its own with designs in stamped steel, and rich moulding can be used to bring paneling in strong relief, or plain finish can be made. This offers a permanent field for decoration, limited only by the skill and taste of the artist. The acoustic properties of our ceilings and walls are perfect; for the sound waves are not absorbed, and are destroyed by the crimped surface.

Our stamped plates make a rich panel ceiling easily decorated, and when combined with other panels and mouldings, there is no limit to the designs that can be made suitable for handsome churches, and we are pleased to submit special designs to scale, with estimate, on receipt of measures giving size and shape of the room.

NORTHROP & CO. made and put up for us, in our M. E. church, at Naples, N. Y., the handsomest church ceiling we have ever seen. We say this without solicitation, and we know that we confer a favor on any reader of this note who may have similar church repairing or church building in view; we urge them to see, before deciding on plans, the church ceiling at Naples. WARD PLATT, *Pastor M. E. Church.*



Ceiling in the M. E. Church, Emporium, Pa.,

Of stamped steel panels, style B, with crimped matting and embossed center piece.

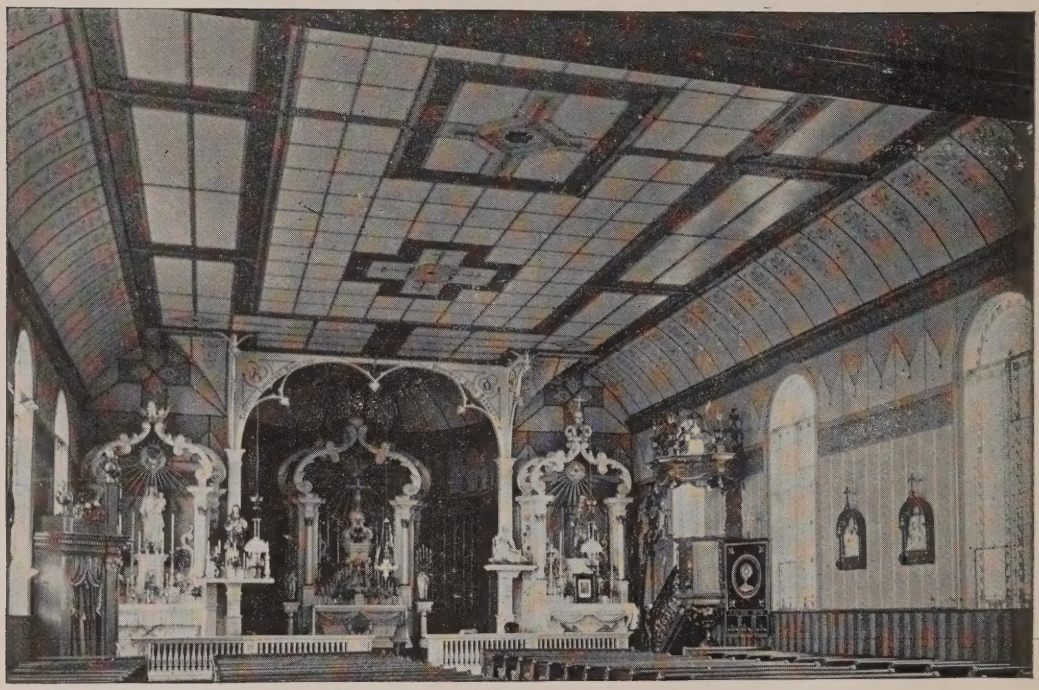
MR. A. H. TODD, of Binghamton, N. Y., writes: "The metal ceiling for the Conklin Baptist Church came all right, and in due season was placed in position to the great satisfaction of all interested. Its beauty is much admired, and it has improved the acoustic qualities of the house."

MR. JEROME AYDELOTT, Agent, BELVIDERE, ILL., Nov. 29th, 1888.

Dear Sir:—Perhaps Mr. Sharp has already written you concerning our church ceiling, which you put up for us. At any rate I also wish to tell you of its perfect satisfaction of all demands. The echo which has so long disturbed us in that room (32 years) is entirely gone, and the acoustic properties are perfect. Loud tones produce no echo in any part of the room, and low tones are heard with distinctness anywhere in the room (66x57). The matter of which I spoke to you, "the fear that the iron would give a metallic ring to the voice," is also perfectly satisfactory, the influence of the metallic ceiling making the tone and quality of the voice more pleasant and more perfect. In fact, the ceiling is satisfactory to us all in *every particular*. If, at any time, a word from me would be helpful to any who contemplate using these ceilings, feel perfectly free to refer them to me.

Believe me, most truly yours, H. W. REED,

Pastor First Baptist Church, Belvidere, Ill.



Ceiling and Side Walls in St. Mary's Church, at Anchorville, Mich.

Ceiling of crimped panels, with embossed Daisy borders, crimped cove and embossed Horse-shoe border, with suitable mouldings.

Walls are No. 1 crimp field, with crimped panel border and frieze design.

A. NORTHROP & Co, NEWARK, O., May 2, 1888.

Gentlemen :—Enclosed find check for balance of account due for putting on ceiling in St. Francis de Sales Church.

I am pleased to express my entire satisfaction with the manner in which the work was done, and am confident that I voice the sentiment of all critical judges, who have viewed the ceiling since its completion, when I ay that it is far ahead of wood and plaster, giving beautiful effects that could not be produced by either. Our church will be a standing monument of your skill as designers, and the work will more than substantiate all you claim for your ceilings, both as to beauty, cheapness and permanency. REV. W. F. HAYES.

Crimped and Twilled Panel Ceiling

In the M. E. Church, Oak Harbor, O., with stamped center and corner plates, embossed Daisy band, Nos. 2 and 3 mouldings and stock cornice.

A. NORTHROP & Co. EVANSVILLE, IND., Jan. 27th. 1888.

Gentlemen:—I take pleasure in saying that the ceiling which you put in our church last summer has given perfect satisfaction. Instead of detracting (as I feared it might) from the frescoing, I think it has added to the beauty and effect.

We considered our church almost perfect in its acoustics when we had our plaster ceiling, but many of our people think that the paneled iron is an improvement in that respect also. I would not hesitate to commend your ceiling to those who are making a change, and prefer it to any other ceiling for a new church.

Yours respectfully, L. M. GILLELAND,

Pastor Walnut St. Presbyterian Church, Evansville, Ind.

I heartily concur in the above. PHILLIP C. DICKER, *Treas.*

REV. H. H. WARING writes of the ceiling in the Shiloh Baptist Church at Alexandria, Va.: "The work is about finished and painted, and gives general satisfaction, being the most beautiful ceiling in the city, and the most durable."

REV. LUTHER FREEMAN writes of the ceiling put in the M. E. Church at Milford, Mass.: "I have just returned and find that your agent has placed the ceiling in our church according to agreement. The decorations are now complete and we have the most attractive ceiling in town. All who have seen it are greatly pleased, and we are well satisfied with all our business with you. Our treasurer has sent check for the amount."

Store Ceiling in Crimped Panels,

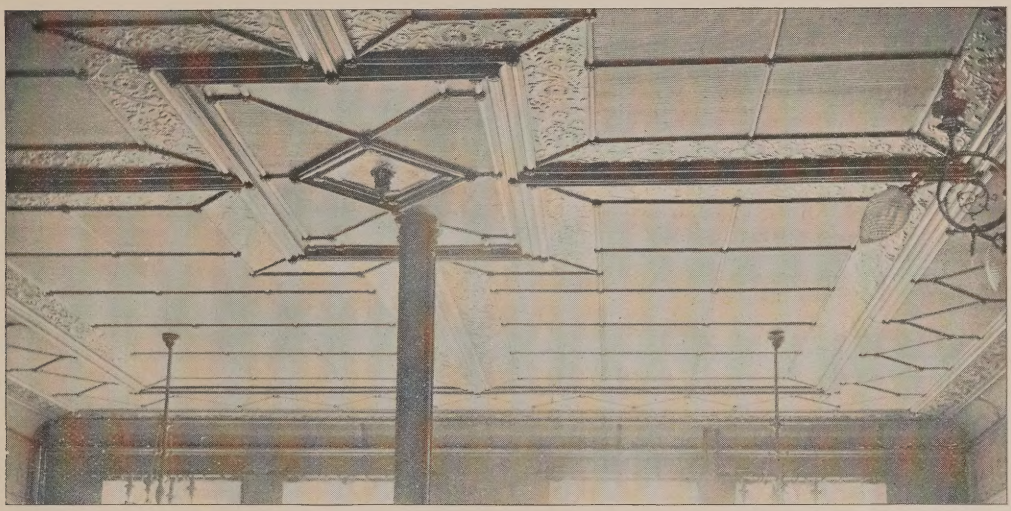
With No. 2 S mouldings, embossed Daisy band and No. 2 border mouldings and stock cornice.

W. W. GODDING, Superintendent Government Hospital for the Insane at Washington, D. C., writes: "The ceilings look well—are non-combustible—are not subject to falling from leaks overhead—and, with an occasional new coat of paint, seem likely to remain in good condition as long as the building. We are using them for halls, bath rooms, closets smoking rooms and partitions wherever we wish to make rooms as fire-proof as possible."

PITTSBURGH, Jan. 31st, 1887.

Messrs. A. Northrop & Co., of this city, have just completed for our store here an iron ceiling of fluted iron in panels. Our store is 45 feet wide by 96 feet deep; the ceiling is handsome, durable, and cost less than a wooden ceiling. We are much pleased with it, and can strongly recommend to any one wanting a *good ceiling* to use the fluted iron ceilings. Before adopting this ceiling we examined a number that they have put up in this city, and all the parties that we talked to about it were very much pleased with them.

OIL WELL SUPPLY CO., LTD.,
JOHN EATON, *President*,



Part of Ceiling in Leister House Dining Room, at Huntingdon, Pa.,

Put up by local carpenters, in crimped panels with No. 4 mouldings after plate E, with special center piece and border design, deep stock mouldings M and N and cove cornice.

H. Leister, writes of the ceiling in dining room of the Leister House at Huntingdon, Pa.: "The ceiling is about finished and looks very well. It will be fine when painted and finished properly, and I am highly pleased with it. We got along very nicely putting it on, no trouble whatever."

Harry Reynolds, of Kittanning writes of the ceilings in office and reading rooms of the Reynolds House: "The ceilings are very satisfactory and put up in a workmanlike manner."

C. H. GILLESPIE, architect, Danville, Ill., writes: "I have the store ceiling up in good style, and believe it will be the means of selling more, for it certainly shows up well."

[From *Zion's Herald*, January 16, 1889.]

The Whitinsville, Mass., Methodist Church has received a thorough renovation, and it now stands an ornament to the village and a joy to all the lovers of Zion. Iron ceilings of elaborate and beautiful designs are placed in both the vestry and auditorium. This application of iron is a new kind of work, patented by Messrs. Northrop & Co., of Pittsburg, Pa. Its many advantages will, we think, before long make it supersede plaster of every kind. For beauty and durability we know of nothing with which it can be compared. It may, in the first instance, cost something more than the ordinary material, but to work out the same tasteful designs by any other method would more than double the labor and expense.

REFERENCES.

D. F. Mitchell, public school ..... Prescott, Arizona
Samuel Hill ..... " "
Alfred Kinney, court house ..... Globe, "
Mitchell Bros., builders ..... Melbourne, Australia
Rev. Pl. Zarn, church ..... Caulksville, Ark.
J. H. Clendenning, Esq ..... Fort Smith, "
A. R. Smith, Pres. Avenue Hotel ..... Hot Springs, "
Jas. Smith, builder ..... Auburn, Ala.
Parker & Co., bank ..... Cullman, "
Rev. A. Bandry ..... Durban-Natal, Africa
Jas. M. Kirk ..... Auburn, Cal.
A. Langenburger ..... Anaheim, "
N. M. Johnson, church ..... Pasadena, "
Houtz & Sargent, store ..... Rosita, "
W. F. Brey, parlor ..... Santa Fe Springs, "
Dr. R. S. Thornton, parlors ..... Deloraine, Manitoba, Can.
Douglass Bros ..... Toronto, Can.
T. V. B. Bingay, parlor ..... Yarmouth, N. S.
A. Reid, architect, bank ..... Concepcion, Chili
Sr. Don O. Smith, Parish church ..... Cardenas, Cuba
Roman Catholic Church ..... Guadelupe, Costa Rica
Sr. J. I. de Jongh, C. E ..... San Jose, " "
C. W. Fair, Tabor Block ..... Denver, Col.
F. Stapp, builder ..... " "
S. E. Sessions, parlor ..... Colorado Springs, "
O. A. McFarland & Co ..... Longmont, "
Bulger & Rapp, architects, stores ..... Trinidad, "
Col. F. E. Boyd, Agent ..... Delta, "
R. F. Williams, Masonic Hall ..... " "
First National Bank ..... Rico, "
Ninth School District ..... South Windsor, Conn.
Lowe's Drug Store ..... New Haven, "
Retreat for the Insane ..... Hartford, "
Gen. G. W. Bentley ..... New London, "
F. B. Noyes, parlor ..... Stonington, "
S. Parsons, parlor and church ..... Thompsonville, "
Metzerott Music Hall and stores ..... Washington, D. C.
F. Miller, stores ..... " "
Ballantyne & Co., store ..... " "
J. Gronmiller, architect ..... " "
Methodist Episcopal Church ..... Brightwood, "
Town Hall ..... Langdon, "
F. G. Sampson, store ..... Boardman, Fla.
A. J. Gardner, store ..... Kissimee, "
Brevard Co., bank ..... Cocoa, "
D. W. Burton, hall ..... Crescent City, "
H. M. Flagler, Alcazar Hotel ..... St. Augustine, "
New Home Sewing Machine Co ..... Atlanta, Ga.
R. D. Cole Manfg. Co., offices ..... Newman, "
H. L. Boon, stores ..... Valdosta, "
Jas. Moore, dwelling ..... Belfast, Ireland
J. Eye, store ..... Aurora, Ill.
Rev. B. W. Reed, First Baptist church ..... Belvidere, "
W. A. Elder, druggist ..... Bloomington, "
Aisthorpe & Halliday ..... Cairo, "

Kohl & Middleton, museum ..... Chicago, Ill.
Hall Safe & Lock Co ..... " "
Thos. Whitfield, druggist, Wabash and Jackson ..... " "
Mead & Co., offices ..... " "
King Bros., store, 159 Clark Street ..... " "
Lincoln National Bank ..... " "
Dr. Price, Baking Powder, offices ..... " "
E. McNabb & Son, architects ..... Decatur, "
Chas. H. Gillespie, store ..... Danville, "
Col. L. Dyer, house ..... Duquesne, "
Chas. Roberts, grocery ..... Evanston, "
J. F. Gates, store ..... Henry, "
John Payne & Co., store ..... Kansas, "
Miller & Wineteer, church ..... Minonk, "
Rev. Wm. Roegge, church ..... Melvin, "
Donovan & Vennam, bankers ..... Milford, "
A. Seelig, store ..... Niantic, "
E. E. Rogers & Son, bankers ..... Port Byron, "
Ballard & Ballard, architects, Y. M. C. A. ..... Springfield, "
R. H. Elam, church ..... Smithboro, "
Masonic Hall ..... Watseka, "
H. E. Brown & Co ..... " "
First National Bank ..... " "
Waynesville Bank ..... Waynesville, "
First Baptist Church ..... Dixon, "
First M. E. Church ..... Sterling, "
Alden Store Co ..... Anna, "
White & Frost ..... Mattoon, "
J. H. Hodder, publisher ..... Aurora, "
Methodist Episcopal Church, ceiling and walls ..... Walnut, "
Barbee Wire & Iron Works ..... LaFayette, Ind.
Rev. H. L. VanNeys, parlor and dining room ..... Goshen, "
Methodist Episcopal Church ..... Lewisville, "
Dr. O. H. Barrett, three rooms ..... Knightstown, "
Court House ..... Brownstown, "
A. C. Thompson & Co., bank ..... Edinburg, "
J. L. Orr, architect, First Pres. church ..... Evansville, "
Nordyke & Marmon, stores ..... Indianapolis, "
H. M. Matson, architect ..... Fort Wayne, "
H. Watts, stores ..... Knightstown, "
M. E. Church ..... " "
Maurice Herbst, dealer ..... Madison, "
W. J. Hole ..... Mt. Vernon, "
Hoosier Drill Co., store ..... Richmond, "
Clift, Williams & Co., store ..... Terre Haute, "
W. C. Bunton, architect ..... " "
State Normal School ..... " "
John Grabner, store ..... Warsaw, "
P. Sonna, store and hall ..... Boise City, Idaho.
Rev. W. J. Boone, church ..... Caldwell, "
R. W. Berry, stores ..... Hailey, "
Bunker Hill & Sullivan M. & C. Co., office ..... Wardner, "
Jno. A. Nash, public schools ..... Audubon, Iowa.
Dierker & Rolling, builders ..... Bellevue, "
R. T. Hosford, dining room ..... Burlington, "

REFERENCES.—CONTINUED.

F. A. Kennon ..... Corning, Iowa.
W. E. Allen, I. O. O. F. hall ..... Centervilie, "
Ludwig, Hunt & Long, opera house ..... Harlan, "
Rev. L. Ream, church ..... Liscomb, "
L. M. Shaw & Sons, stores ..... Monroe, "
Norton & Bisbee, church ..... Prairie City, "
W. A. Slippy, M. E. church ..... Reinbeck, "
Rev. D. L. Mackenzie, Eng. Luth. church .... Sioux City, "
J. E. Sedgewick, parlor ..... Waterloo, "
Independent Schools ..... Marion, "
Office DesMoines Water Works ..... Des Moines, "
Beed Block and Franklin Co., bank ..... Hampton, "
B. F. Thomas, dealer, post office and store ..... Traer, "
Baptist Church ..... Malvern, "
M. E. Walker, builder, Ebenezer Evang. church, Holton, Kan.
H. M. Hadley, architect ..... Topeka, "
W. E. Blackstone ..... Anthony, "
Wm. Boyle, Presbyterian church ..... Hoxie, "
J. T. Black, stores ..... Ottawa, "
Rev. A. M. Geiger, church ..... Valley Falls, "
H. C. Long, church ..... Wyandotte, "
Ferguson & Watson, 1st National bank ..... Herrodsburg, Ky.
DeLong & Co ..... Lexington, "
Carpenter, Annear & Co ..... Louisville, "
R. B. Pottinger, builder ..... Owensboro, "
Wm. Goddard, church ..... Paducah, "
Curl & Reese, stores ..... Synthiana, "
L. H. Gruber & Son, stores ..... Shelbyville, "
R. S. Bullock ..... Lexington, "
Methodist Episcopal church ..... Princeton, "
J. C. Frederick, store ..... Owensboro, "
W. R. Pratt, store building ..... Madisonville, "
Chapel of Benedictine Sisters Convent ..... New Orleans, La.
J. H. Arbaugh, parlor ..... Rayville, "
Jorge Storck ..... Santa Barbara, Mexico.
Rich. Chenery, hotel ..... Belfast, Me.
Town Hall ..... Brewer, "
Rev. J. H. Bennett, M. E. church ..... Dresden Mills, "
G. M. Stevens ..... Deering, "
W. S. Stubbs, parlor ..... Foxcroft, "
Rev. W. H. Spencer, Baptist church ..... Waterville, "
Catholic Church ..... Belfast, "
National Bank ..... " "
J. F. Pottle, dealer ..... " "
E. R. Staples, parlor ..... Bridgeton, "
W. R. Brown, church ..... Morrill, "
Methodist Episcopal Church ..... Solon, "
A. F. Goodhue, two stores ..... Fort Fairfield, "
S. E. McClellan, store ..... Gorham, "
Dr. E. C. Bryant, church ..... Pittsfield, "
Rev. F. H. Morgan, ceiling and walls in church ... Orona, "
J. W. Seay, church ..... Gaithersburg, Md.
D. C. Hammett, Esq ..... Leonardstown, "
Vaile & Young ..... Baltimore, "
J. T. Ballinger, parlor ..... Mechanicsville, "
L. W. Gunby, offices ..... Salisbury, "
Rev. S. M. Brande, church ..... Woodstock, "
H. K. Wight, hall and church ..... Indian Orchard, Mass.
New Church Society ..... Elmwood, Mass.
Baptist Church ..... Webster, "
C. B. Lovewell ..... Wellesley, "
Geo. E. Cutler, two parlors ..... So. Framingham, "
C. Saunders, store ..... Lawrence, "
H. Newcomb, Esq., parlor ..... West Medford, "
Rev. L. Freeman, M. E. church ..... Milford, "
D. B. Griggs & Sons, office and Dunn's block, Chicopee Falls, "
Wheaton Female Seminary, hall ..... Norton, "
Lt. Col. J. Porter Houston, Navy Yard ..... Boston, "
C. H. Smith, Esq., parlor ..... " "
A. D. Parks, parlor ..... Brookfield, "
Geo. E. Bosworth ..... Amherst, "
Dwight Mnfg. Co., offices ..... Chicopee, "
L. White, Esq., Y. M. C. A. parlor ..... " "
F. F. Marple ..... Chelsea, "
F. Holmes, church ..... Chiltonville, "
Geo. E. Clark, Congregational church ..... Falmouth, "
C. H. Baush & Son, Presbyterian church ..... Holyoke, "
Lawrence National Bank ..... Lawrence, "
E. Searle & Co., church ..... " "
Hamilton Mnfg. Co., offices ..... Lowell, "
H. M. Daggett, library ..... Attleboro Falls, "
Dr. G. W. Mills, parlor ..... Medford, "
L. C. Ferrald, parlor ..... Melrose, "
Smith College ..... Northampton, "
Codd & Allen, cottages ..... Nantucket, "
F. A. Robbins, drug store ..... Pittsfield, "
Dr. W. P. Richardson ..... Scituate, "
H. H. Joy, residence ..... So. Weymouth, "
R. L. Day, residence ..... Framingham, "
J. H. Lewis, Agent, Asylum Insane ..... Springfield, "
Miss E. L. Andrews ..... Richmond, "
F. Armsby ..... Wilkinsonville, "
Mrs. L. Rand, parlor ..... Westfield, "
Rev. E. S. Best, M. E. church ..... Whitinsville, "
K. Danforth, parlor ..... Williamstown, "
T. T. Hallett, society hall ..... Yarmouth, "
J. R. Rockwell, store ..... Allegan, Mich.
Adrian Gas Co ..... Adrian, "
A. T. Metcalf, store ..... Battle Creek, "
Parks & Co., hall and store ..... Crystal Falls, "
A. Lustfield, store ..... " "
Rev. L. Opyrchalski, R. C. church ..... Alpena, "
B. F. Sweet, s ore ..... Carson City, "
Geo D. Van Vranken, store ..... Cadillac, "
C. D. Waterman, parlor ..... Detroit, "
Spier & Rohns, architects 1st Ger. Luth. church .. " "
Rev. J. P. Farmer, church ..... Eaton Rapids, "
D. D. Wessels, drug store ..... Ea. Tawas, "
C. E. Lockwood ..... Holly, "
E. E. Grip & Co., builders ..... Ishpeming, "
Ishpeming National Bank ..... " "
Nels. Majhannu, store ..... " "
Wm. E. Hill, Mayor, porch ..... Kalamazoo, "
F. Frei, store ..... Marquette, "
Rev. Geo. Atchison, church ..... Romeo, "

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Grobisher & Crosby Furniture Co ..... Sturgis, Mich.
J. M. Barrows, architect ..... " "
First National Bank ..... Traverse City, "
A. W. Mills, parlor ..... Tecumseh, "
Bernard, Smith & Co., dealers ..... Jackson, "
C. B. Driscoll, builder ..... Negaunee, "
H. J. VanAtta, store ..... Fenton, "
G. R. Refrigerator Co ..... Grand Rapids, "
Rev. H. DeGryse, St. Mary's church and school, Anchorville, "
Dr. E. A. Anderson, store ..... Ironwood, "
O. M Pearl, store ..... DuPlain, "
N. W. Mills, store ..... Otsego, "
Rev. T. J. Ryan, church ceiling and walls ..... Lenox, "
Frank Clymer, store ceiling and walls ..... Alba, "
St. Peter State Hospital ..... St. Peter, Minn.
J. W. Brown, store ..... Ortonville, "
Jos. Kapoun, store ..... Waterville, "
H. Bendixon, church ..... Springfield, "
Burrell & Little, dealers ..... Duluth, "
Public Schools ..... St. Paul, "
Rev. L. P. Lundgren, church ceiling and wall ..... Hallock, "
Crane Bros. & Co., Presbyterian church ..... Yazoo City, Miss.
Cochran & Powers ..... St. Louis, Mo.
E. R. Page, stores ..... Marshall, "
Rev. H. Zimmerman, church ..... Etna, "
A. S. Kellogg, Presbyterian church ..... Boulder, Mont.
Wm. Geiser, State laboratory ..... Lincoln, Neb.
J. D. Brewer, store ..... Columbus, "
A. C. Stowell ..... Cedar Rapids, "
B. J. Kass, stores ..... Wayne, "
Dr. G. W. Wilkinson, store ..... Norfolk, "
S. B. Turner ..... Alona, "
T. A. Woodward, stores ..... Beatrice, "
J. E. North & Co., stores ..... Columbus, "
M. Savage, Sec. Knights of Pythias Hall ..... Hebron, "
Jas. Tyler, architect 1st National Bank ..... Lincoln, "
The Lincoln Hotel ..... " "
Lexington Bank ..... Lexington, "
J. C. Stitt, architect Citizens National bank ..... Norfolk, "
Rev. J. M. Cassidy, church ..... O'Neil, "
T. E. Molacek, stores ..... Schuyler, "
Paul Perkins ..... Ashland, N. H.
Charles Marseilles, parlors ..... Exeter, "
B. R. Gilman, parlors ..... Colebrook, "
J. A. Stickney, parlor ..... Great Falls, "
C. P. Bancroft, Supt. N. H. asylum ..... Concord, "
Pendexter Mansion, parlor ..... Intervale, "
W. W. Whicher, parlor ..... Laconia, "
H. H. Townsend ..... Milton Mills, "
Head & Dowst ..... Manchester, "
H. A. Yeaton, parlor ..... Portsmouth, "
Lynch & Richardson, dealers, Baptist church ..... Littleton, "
Sanborn House, office ..... Wolfboro Jct., "
Rev. C. W. Williams, church and parlors ..... Contoocook, "
Falstrom & Tornqvist ..... Passaic, N. J.
J. Hairhouse, parlor ..... Dover, "
P. Bentley, offices ..... Jersey City, "
O. O. Shackleton, parlor ..... Hackensack, N. J.
John Thatcher, parlor ..... Morristown, "
J. P. Nessell, parlor ..... Newark, "
J. E. Jones, store and residence ..... Orange, "
G. A. Seaman, store ..... Perth Amboy, "
John Patrick, store ..... Rutherford, "
Dr. Swinton, office ..... Summerville, "
C. B. Mathis, store ..... Toms River, "
Clark Bros. & Co., store ..... Trenton, "
C. F. W. Wittke ..... Westfield, "
J. B. Price ..... Afton, N. Y.
E. S. Bliss, store ..... Alfred Centre, "
E. E. Evans, Std., State hospital ..... Binghamton, "
F. J. Miller, 1218 Pacific st ..... Brooklyn, "
Queen City Bank, 347 Main st ..... Buffalo, "
F. Hammond, jeweler, 54 Seneca st ..... " "
J. B. Scott ..... Bath, "
A. C. Chapman, church ..... Benton Centre, "
A. J. McNett, parlor ..... Belmont, "
S. M. Shaw, publisher ..... Cooperstown, "
H. B. Williams, stores ..... Corning, "
Howe & Dayton, stores ..... Canandaigua, "
D. C. Twogood, hotel ..... Canestota, "
H. Tripp, dining room ..... DeRuyter, "
Dr. W. A. Truman, store ..... " "
Berkett Bros. & Co., store ..... Dresden, "
J. M. Edwards ..... Danville, "
A. A. Harpending, hotel ..... Dundee, "
C. M. Wright, M. E. church ..... E. Chatham, "
A. B. Bradley, store ..... Friendship, "
Citizens Bank ..... " "
A. B. Collins & Co., store ..... Fulton, "
H. J. Anthony, store ..... Gloversville, "
F W. Scott, store ..... Fredonia, "
M. E. church ..... " "
First Presbyterian Church ..... Fairhaven, "
Sheldon Bros., dining room ..... Hornellsville, "
Hall & Co., alapaca mills ..... Jamestown, "
J. F. Moyer, M. D., stores ..... Lockport, "
Bingham Bros., bankers ..... Mt. Morris, "
M. Cooper, post office ..... Medina, "
G. W. Powell ..... Moriah, "
McMonigal & Rodgers, stores ..... Middletown, "
H. T. Clark, stores ..... Massena, "
First Presbyterian Church ..... Masonville, "
M. E. Church ..... Naples, "
J. W. Currier, residence ..... New Rochelle, "
Rev. J. H. Davis, church ..... N. Huron, "
New York Sun, office ..... New York, "
Card & Van Wagenan, stables ..... " "
Kingman & Campbell, stores ..... " "
Westminster Presbyterian Church ..... " "
Rev. M. J. Hughes, St. John's hall ..... Oswego, "
Rev. J. B. LeGrande ..... Olmstedville, "
Chas. Ashley, hardware ..... Ogdensburg, "
H. M. Reynolds, stores ..... One da, "
A. A. Hathaway, church ..... Port Henry, "
Wallhead & Dubois, decorators ..... Poughkeepsie, "
E. D. Forman, parlor ..... " "

REFERENCES.—CONTINUED.

J. H. Lown, stores ..... Penn Yan, N. Y.
Geo. Pert, stores ..... Potsdam, "
D. F. Brown, stores ..... Postville, "
Seneca Cady, stores ..... Peterboro, "
J. D. Ely & Co ..... Rome, "
M. E. Church ..... Rondout, "
H. E. Webster, Pres. Union college ..... Schenectady, "
S. Hallock, store ..... Sandy Hill, "
Rev. J. C. Mallory, M. E. church ..... Savono, "
T. S. Wells, parlor ..... Stoney Brook, "
M. Silberberg & Co., store ..... Suspension Bridge, "
Hepworth & Son ..... Tonawanda, "
H. Joyce ..... Troy, "
J. W. Griffen, architect ..... Watertown, "
E. L. Paddock, stores ..... " "
Chapman & Co., State asylum ..... Willard, "
J. Hoyt & Co., stores ..... Wellsville, "
A. D. Jones, stores ..... Wingville, "
Dr. A. F. Van Vranken ..... W. Troy, "
D. H. Traver, dealer ..... W. Sand Lake, "
Coburn Whip Co., offices ..... Windsor, "
Rev. F. X. LaChance ..... Westport, "
D. E. Morgan & Son, decorators ..... Buffalo, "
Chas. King, residence, 235 West st., cor. Beach, New York, "
J. W. Tuttle & Co., store ..... Plattsburg, "
Presbyterian Church ..... Skaneateles, "
Niagara Bank ..... Niagara Falls, "
Church of the Sacred Heart ..... Crown Point, "
Burnham Industrial Farm ..... Canaan 4 Corners, "
W. M. Storrs, Butterfield block ..... Utica, "
N. W. Gallinger, builder, two churches ..... Fabius, "
Rev. Theo. Bauck, church ..... Lincoln, "
G. Gould, store ..... Round Lake, "
H. F. Olmsted, store ..... Catskill, "
Staten Island Savings Bank ..... Stapleton, "
B. H. Leonard, halls ..... Auburn, "
Geneseo State Normal School, Prof. J. M. Milne, Geneseo, "
Baptist Church ..... Nanuet, "
W. L. Carpenter ..... Ellenville, "
Asa Rix, store ..... Saratoga Springs, "
Storrs, Chatfield & Co., dealers ..... Owego, "
C. M. Hamilton, store ..... Salamanca, "
Porter Sheldon, parlor ..... Jamestown, "
F. H. Conant's Sons, offices ..... Camden, "
Trinity M. E. church ..... Durham, N. C.
Rev. W. Wainwright, parlor ..... Bowman's Bluff, "
Wagner & Hart, store ..... Asherville, "
H. Johnson & Co., hall ..... Wilmington, "
Chas. Edick, parlor ..... Williamsport, N. D.
Capital National Bank ..... Bismarck, "
E. C. Lucas ..... Lisbon, "
T. W. Morrow, store ..... Calumet, Ohio.
Waiting rooms, W. & L. E. Ry ..... Toledo, "
Toledo Club, dining room ..... " "
H. C. Mylander, M. E. church ..... Oak Harbor, "
J. Seyler & Bro., 1st National bank ..... Marietta, "
B. Franklin, store ..... Newark, "
Akron Iron Co., offices ..... Akron, "

H. S. Winslow Estate, Gilbert st., store ..... Cincinnati, Ohio.
D. Schmid, dealer ..... Zanesville, "
Stolzenbach Branch U. S. Baking Co ..... " "
Gilbert Snyder, agent ..... " "
Brigham & Lyon, store ..... Wauseon, "
Webb C. Ball, store, Superior st ..... Cleveland, "
Jno. Francy & Co., stores ..... Toronto, "
J. W. Reilly, parlor and hall ..... Wellsville, "
T. & O. Central Ry. Depot ..... Bucyrus, "
Hooper Building, 4th and Elm sts ..... Cincinnati, "
J. D. Carpenter, store ..... Austin, "
Dr. J. V. Lewis, post office and stores ..... Alliance, "
John Schlitz, restaurant ..... Cleveland, "
H. P. Wick, stores and bank ..... " "
D. R. Hawley & Co., hotel ..... " "
Hyndman & Co ..... Cincinnati, "
F. P. Borgel, store ..... Carrollton, "
S. M. Williams, store ..... Coshocton, "
T. W. Fletcher, church ..... Beallsville, "
J. P. Howey & Co., store ..... Bryan, "
H. J. Eady, store ..... Elyria, "
H. Brunt, store ..... E. Liverpool, "
B. F. Bolton, Church of God ..... Findley, "
A. E. Crane, store ..... Garrettsville, "
J. N. McCoy, U. P. church ..... Kenton, "
W. R. Carver, stores ..... Kent, "
J. E. Burt, M. E. church ..... Lowellville, "
German Deposit Bank ..... Massillon, "
Masonic Hall ..... Marietta, "
Rev. W. L. Mulhane, R. C. church ..... Mt. Vernon, "
Rev. W. F. Hayes, R. C. church ..... Newark, "
Wm. Bradbury, store ..... New Lisbon, "
O. F. Carter, dealer, store ..... Oberlin, "
Geo. Wehe, architect, opera house ..... Pomeroy, "
W. L. Cleland, bank ..... Poland, "
P. B. Conn, publisher ..... Steubenville, "
First National Bank ..... St. Clairsville, "
Odd Fellows' Hall ..... Salem, "
Wm. Summers, parlor ..... Struthers, "
Produce Exchange, S. D. Co., offices ..... Toledo, "
McClure & Craighead ..... Wooster, "
S. T. Mitchell, Pres., University Hall ..... Wilberforce, "
John McCarroll, M. D., porch ..... Wellsville, "
First U. P. Church ..... " "
R. Bartholomew, stores ..... Warren, "
C. H. Medicus ..... Youngstown, "
R. D. Schultz, opera house ..... Zanesville, "
J. Vance Graft & Co., dealers ..... Uniontown, Pa.
Grandin Bros., bank and store ..... Tidioute, "
Presbyterian Church ..... " "
Behm Hotel, bar ..... Altoona, "
Koch & Schneider, store ..... Allentown, "
Hotel Allen, halls ..... " "
Robinson & Bro., builders ..... Punxsutawney, "
St. Mary's Catholic Schools ..... Homestead, "
P. C. Wagner, clothing store ..... " "
First National Bank ..... Easton, "
F. Kinslow, office ..... Lock Haven, "

REFERENCES.—CONTINUED.

H. Leister, hotel dining room ..... Huntingdon, Pa.
S. L. Brown & Co., store ..... WilkesBarre, "
Dr. J. R. King, offices ..... Braddock, "
Zions Lutheran Church ..... Lykens, "
I. N. Meals, church ..... North Hope, "
First Christian Church ..... Big Run, "
J. E. Wampler ..... Irwin, "
Morrison & Cass Paper Co., offices ..... Tyrone, "
Kernochan & Co., hall ..... Titusville, "
D. M. Cubbison, Fountain Inn ..... New Castle, "
R. B. Thomas, Builder ..... Clarion, "
Oglivee & McClure, stores ..... Dawson, "
Obrien & Toner, stores ..... Latrobe, "
Wm. Grant, hotel ..... Temple, "
U. S. Hotel, R. S. Fulmer, proprietor ..... Slatington, "
Court House ..... Reading, "
J. S. Morrison ..... Freeport, "
Zell Building, stores ..... Beaver Falls, "
G. C. Wareham, store ..... " "
DePierro Bros., hotel ..... Freeland, "
Rev. W. M. Taylor, parlor and study ..... Mt. Jackson, "
Hoch Bros., hotel reading room ..... Chicora, "
E. F. Hays, dealer ..... " "
Saml. Wetzel, dealer, store and school ..... Carlisle, "
J. V. Young, stores in Nolan Bldg. ..... Reynoldsville, "
H. Alex. Stoke, agent, store ..... " "
Sol. Miller, store ..... Trevorton, "
Dr. W. W. Johnston, offices ..... Greensburg, "
Irwin Block, stores ..... Duquesne, "
F. Ochsenhirt, store ..... Wilkinsburg, "
W. J. Coon, supt., lodge ..... Glen Eyre, "
N. B. Savings Bank ..... New Bethlehem, "
M. E. Church ..... Emporium, "
A. L. Gibson, church ..... Gibson, "
C. D. Aldinger, drug store ..... Butler, "
F. S. Reader, publisher, parlors ..... New Brighton, "
G. A. Esch, builder ..... Lehighton, "
Thos. Pepper, hotel ..... Ashland, "
Kirk & Smith, dealers ..... New Castle, "
Mrs. W. P. Wilson, parlor ..... Belletonte, "
J. T. Meals, dealer ..... Oil City, "
Scranton Supply Co ..... Scranton, "
W. W. Campbell & Co., builders ..... Franklin, "
A. Wishart & Sons ..... Sharon, "
Rev. G. B. Deakin, M. P. church ..... Castle Shannon, "
R. C. McMaster, church ..... Adamsville, "
M. V. Horner, store ..... Altoona, "
Rev. J. W. Rhoads, R. C. church ..... Blairsville, "
U. P. Church ..... Bellevue, "
Vorhees & Son, store ..... Brownsville, "
John Bost, dealer, and Public Schools ..... Braddock, "
Greenewald & Co., store ..... Bradford, "
J. G. & W. Campbell, Masonic hall ..... Butler, "
D. H. Stratton, First Baptist church ..... Blosburg, "
H. C. Green, store ..... Bodine, "
A. D. Laidley, store ..... Carmichaels, "
A. Schutz & Son ..... Coal Valley, "
C. N. & W. Savage, schools ..... California, "

R. A. Holden, store ..... Coalport, Pa.
Methodist Episcopal Church ..... Coudersport, "
M. E. Church ..... Canonsburg, "
I. O. O. F. Hall ..... Connellsville, "
W. P. Townsend, chairman asylum ..... Dixmont, "
W. R. Thomas, builder ..... Dravosburg, "
Mrs. A. Painter, store ..... DuBois, "
Coxe Bros. & Co., library ..... Drifton, "
James Bennett, bank ..... Emlenton, "
S. W. Vankirk, store ..... Elizabeth, "
J. S. Myer's Estate, restaurant ..... Franklin, "
Woodburn, Brydon & Co., store ..... " "
N. M. Fowler, store ..... Foxburg, "
Dr. Handrick, office ..... Friendsville, "
Shrom & Co., store ..... Greenville, "
C. F. Barnhart, store ..... Greensburg, "
Public Schools ..... Homestead, "
S. J. M. McCarrell, Esq., Com. Hotel ..... Harrisburg, "
J. Read & Sons, store ..... Huntingdon, "
Samuel Beam, store ..... Harmony, "
R. Allison, church ..... Homer, "
Carnegie, Phipps & Co., offices ..... Homestead, "
Geo. McCready, store ..... Homewood, "
E. A. Pennington, store ..... Indiana, "
B. F. Horner, store ..... Johnstown, "
Smith & Welkin Hardware Co., store ..... Kane, "
H. Reynolds, hotel ..... Kittanning, "
T. Heilman, store ..... " "
J. I. Patterson, store ..... Knox, "
Amos Steel, church ..... Kaylor, "
E. Kinsel, dealer ..... Lindsey, "
Ray & Peterson, stores ..... Ligonier, "
Hauck & Co , stores ..... Mechanicsburg, "
Rev. M. Ort, Lutheran church ..... " "
The Chautauquan ..... Meadville, "
The Dewees Wood Co., offices ..... McKeesport, "
Mrs. P. M. McBride, store ..... Murrinsville, "
Peoples Bank ..... Monongahela City, "
J. M. Jope, Jr., parlor ..... New Brighton, "
Presbyterian Church ..... " "
R. M. Allen, opera house ..... New Castle, "
Wm. Workhouse ..... New Alexandria, "
R. Henge ..... Natrona, "
McKerrow, Graham & Co., store ..... Oil City, "
M. Geary, office ..... " "
E. P. Chesebro, store ..... Petrolia, "
W. C. Poulson, restaurant, 813 Walnut st.. Philadelphia, "
Luberg Building, No. 8 Walnut st ..... " "
Rev. L. K. Evans ..... Pottstown, "
Geo. Shiras, parlor, Stockton ave ..... Allegheny, "
First National Bank ..... " "
C. C. Boyle, building, 21-27 Federal st ..... " "
Allegheny Gen'l Hospital, Stockton ave ..... " "
Carlin's Sons, Lacock and Sandusky sts ..... " "
Jones & Stauffer, 74 Federal st ..... " "
Hermann's Drug Store, 2116 Carson st ..... Pittsburg, "
Standard Mfg. Co., 531 Wood st ..... " "
Dr. W. S. Foster, offices, 133 Wylie ave ..... " "
P. Schultz, 2546 Penn ave ..... " "

A. NORTHROP & CO.,

PITTSBURG, PA.

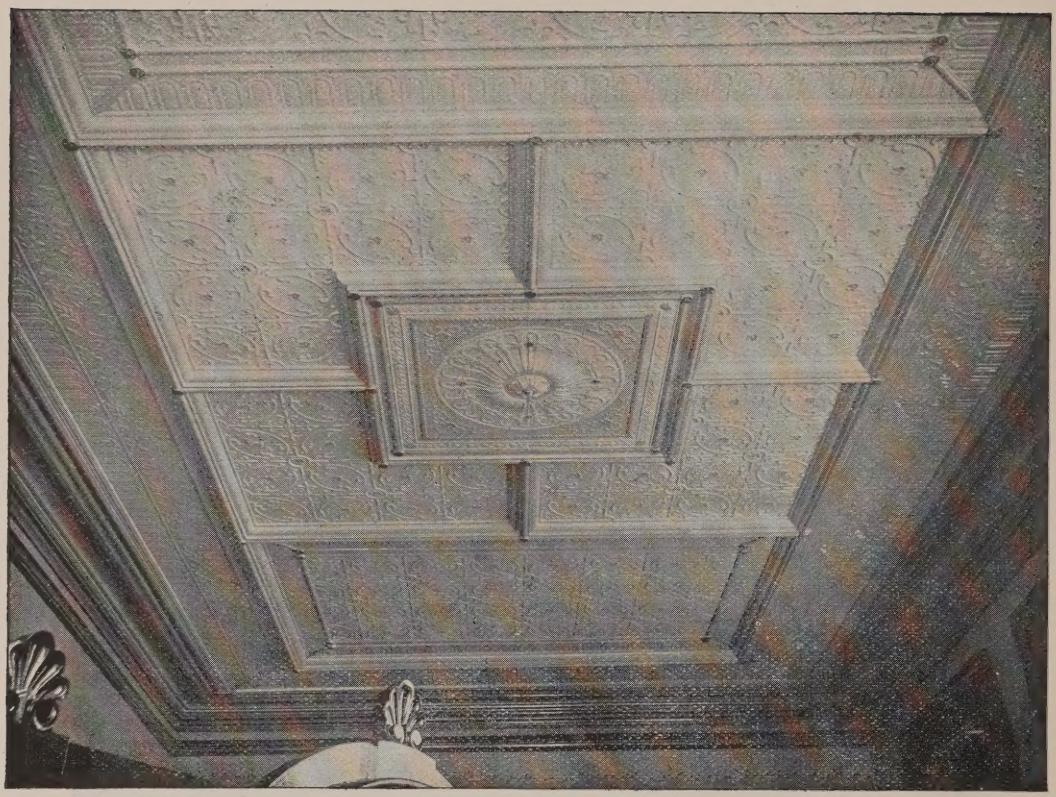
MANUFACTURERS OF

Patent Paneled Metal Ceilings,

STAMPED STEEL PLATES.

We are the Pioneers.

Store Ceiling in Crimped Paneling, with Nos. 2 and 4 mouldings, arched at sides and finished with special foot moulding.



Ceiling in the Manufacturers' Bank, Carson St., Pittsburg,

Of stamped paneling, style O, embossed center piece, Daisy and Horseshoe border, with special mouldings 8 inches wide, and 3 inches deep, which lower the border and center piece as shown. Cove cornice.

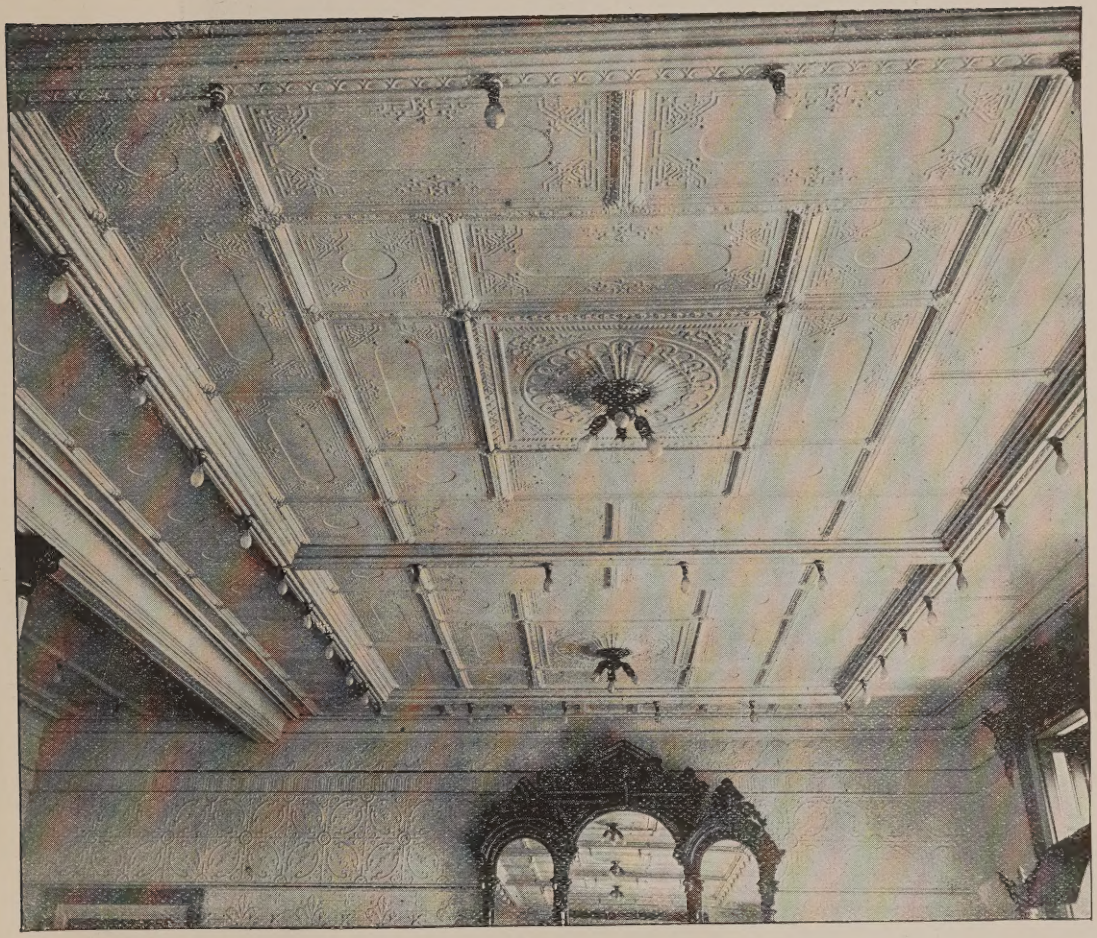
A. NORTHROP & Co. PITTSBURG, PA., October 23d, 1894.

Dear Sirs:—The ceiling and wall you put on for me this summer, improves with acquaintance. I am very well satisfied with the job, and it may be some gratification to you to hear that it is frequently complimented by our customers. Very truly, W. J. A. KENNEDY.

MESS. A. NORTHROP & Co., Pittsburg, Pa. PITTSBURG, PA., October 20th, 1894.

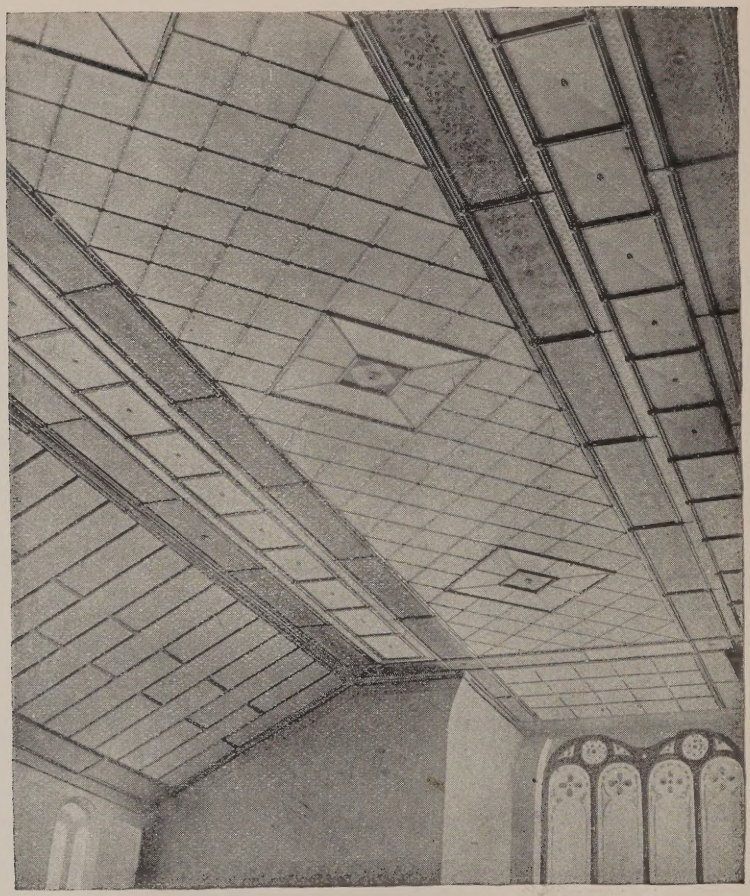
Gentlemen:—The Iron Ceiling that you have just put in our banking room is a beauty and has been greatly admired. We are not at all afraid to sit under it now. Yours truly, D. P. BERG,

Cashier Manufacturers' Bank, Pittsburg, Pa.



Ceiling and Walls in Kennedy's Cafe, Sixth St., Pittsburg.

The ceiling is of deep stamped panels B, with 4 center pieces and embossed division mouldings 8x4 inches. Walls of stamped design, with frieze in Style O and embossed border below cove cornice.



Church ceiling in crimped paneling Nos. 2 and 4 mouldings, with center pieces, and border of smooth panels having center rosettes

MESS. A. NORTHROP & CO., of Pittsburg, Pa., have finished for me, my entire Church with Steel panels, in a manner I never expected, and it is a great beauty. Any one who would do any repairs in old Churches, or put up new ones would meet the best results in A. Northrop & Co.'s Metal Ceiling and Walls, which they have just put in for me. It is economical, ornamental and durable, and to be short about it, I would simply say that Mess. Northrop & Co. are the best people any body could deal with, and whatever they promise they carry out to the letter. Regarding the Patent Cap-seam Roofing which they put on for me, I have to say the same, and invite all to come and see the valleys and chimneys, how nicely they are finished, to the satisfaction of the whole Church.

September 29th, 1894.

REV. THOS. A. BILY,
Rector St. Wenceslaus Church, Spillville, Iowa.

MESS. A. NORTHROP & CO., Pittsburg, Pa.

Dear Sirs:—Enclosed find amount covering cost of our Ceiling. We think it just wonderful, your perfect plan and directions for putting up the Ceiling, and by studying carefully we shall get it on nicely. Our carpenter never put on any Iron ceiling before, and is doing finely. Yours respectfully. REV. J. C. MALLORY,

SAVONA, N. Y., September 3d, 1894. *Baptist Church.*

REFERENCES.—CONTINUED.

W. J. A. Kennedy, walls and ceiling, Sixth st..Pittsburg, Pa.
Brace Bros., Sixth st..... " "
Dr. D. B. Ramsey, 58 Sixth st..... " "
Denny Estate, Third ave. and Market st..... " "
Hendrick's Music Store, Fifth Ave..... " "
G. W. Tea, drug store, 3400 Penn ave..... " "
Cunningham & Co., offices, S. Twenty-sixth st.. " "
Rev. A. Fisher, St. Joseph's church, Mt. Oliver, " "
Remington Bros., Penn Building..... " "
St. Charles Hotel, dining room, Wood st. and Third ave..... " "
F. Schmid, 82 Diamond st..... " "
Swisshelm's Drug Store, Penn ave., E. E..... " "
Jas. Loughridge, 623 Smithfield st..... " "
Boultensbouger & Son, hotel, 1137 Liberty st.... " "
Lawrence bank, Penn ave. and Butler st..... " "
R. D. Brent, druggist, Oakland, Fifth ave..... " "
McGinnis, Herley & Co., store, Oakland, Fifth ave., " "
B. J. Stenger, 1601 Carson st., S. S..... " "
Lotus Club, 1924 " " " ..... " "
R. M. Sterrit, 6130 Penn ave, E. E..... " "
City Deposit Bank, E. E..... " "
Third National Bank..... " "
City Savings Bank, Sixth ave. and Smithfield st. " "
T. Mellon & Sons' Bank, Smithfield st..... " "
Mechanics' National Bank..... " "
Horne & Ward's store, 41 Fifth ave..... " "
Park Bros. & Co., offices, Thirtieth and Smallman sts, " "
Humboldt Public School, S. Twentieth st..... " "
O'Hara Public School..... " "
First R. P. Church, Grant st..... " "
Presbyterian Church, Point Breeze, E. E..... " "
German Baptist Church, S. Thirteenth st..... " "
Cumberland Presbyterian Church, Wylie ave... " "
Rev. L. Werner, St. Philomena's R. C. church. " "
Rev. Boniface, St. Paul's Retreat, S. S..... " "
J. B. Boyer, hotel, Seventh and Duquesne Way " "
Anderson estate, Sixth st. and Penn ave..... " "
John Dimling, dining rooms, Market st..... " "
Seventh Avenue Hotel, Liberty st..... " "
Murdock, Kerr & Co., store, 53 Ninth st..... " "
W. Price, store, 47 Sixth street..... " "
Irish Block, stores and offices..... " "
Bissell Block, stores and offices..... " "
Hamilton Building, stores and offices, Fifth ave. " "
Oil Exchange Bld'g, stores and offices Fourth ave " "
Schmidt Building, stores and offices, Fifth ave. " "
Sheafer & Lloyd, jewelers, Fifth ave..... " "
Jackson & Bros., clothiers, Liberty st..... " "
Mrs. John Daub, stores, 647 Smithfield st..... " "
C. Wilbert, druggist, Mt. Washington..... " "
Kappel Building, Smithfield st ..... " "
J. Wilson, store, 10 Smithfield st ..... " "
E. Poerstel, store, 413 Fifth ave..... " "
Incline Plane Co., Knoxville..... " "
Possiel & Reese, Fifth ave..... " "
J. G. Schlicker, store, 1718 Carson st..... " "
Henry Smith, tailor, Wylie ave..... " "
Dr. W. C. Shaw, 135 Wylie ave ..... " "
Rev. J. B. Devlin, walls, Ste. Stephens Cath. School, Hazelwood, Pa.
Public Schools, St. Clair township..... "
Jesse Ullom, store.....Rogersville, "
Mrs. L. M. P. Thompson, parlor.....Rush Valley, "
J. C. Illig & Bro., store.....Reading, "
A. Moore, academy.....Sewickley, "
Gross, Fitzinger & Co., store.....Slatington, "
Kline & Cook, store.....Sharon, "
B. Krape, church.....Salona, "

T. C. Coulter & Co., store.....Slippery Rock, Pa.
Miners' Supply Co., office.....St. Clair, "
Town Hall.....Saltsburg, "
J. Hunter, parlor.....Tidioute, "
County Commissioners, Forest County.....Tionesta, "
J. W. Piatt, Masonic Hall.....Tunkhannock, "
J. H. Hemphill, stores.....Tarentum, "
J. D. Carr, Steward almshouse.....Uniontown, "
S. Bushfield, church.....W. Alexander, "
I. J. Dickson, store.....Washington, "
Wurtz Bros., builders.....Wilkinsburg, "
F. A. Allan, Jr., dealer, Daily News office....Newport, R. I.
H. A. Heath & Co., jewelry store..... " "
J. K. Harris, builder, 145 S. Water st.....Providence, R. I.
Gates Desk Co.....Greenville, S. C.
F. S. Rodgers, 13 rooms .....Charleston, "
D. J. Sullivan, builder, Hibernian hall..... " "
McDonald & Co., church.....Lebanon, Tenn.
Carter Bros., bank.....Winchester, "
G. A. Pettigrew, Syndicate block.....Flandreau, S. D.
Dr. G. E. Manigault, office.....Charleston, S. C.
F. Gueydan & Co., bankers.....San Diego, Texas.
R. Neumann, builder.....Antonio, "
First National Bank.....Crockett, "
Comanche National Bank.....Comanche, "
Zion's Co-operative Merct. Inst.....Salt Lake City, Utah.
Church .....Newbury, Vt.
Brattleboro Savings bank.....Brattleboro, "
National Bank of Derby Line .....Derby Line, "
W. A. Litchfield, parlor .....Hydeville, "
B. F. Labarre, parlor.....Hartland, "
Lamoille Publishing Co., offices.....Morrisville, "
C. A. Edgarton, M. E. church.....Northfield, "
Bragg & Morris, builders.....St. Johnsbury, "
B. G. Howe, hotel and opera house..... " "
Merchants National Bank..... " "
E. E. Evans & Co., store.....W. Randolph, "
S. G. Cree, church.....Wheelock, "
Hon. R. S. Taft.....Willeston, "
Opera House.....Fredericksburg, Va.
Claude Baxley, stores .....Markham, "
H. S. Haines, Baptist church .....Paris, "
R. H. England .....Raccoon Ford, "
Heinson & Kendler .....Richmond, "
R. L. Houchens & Co., church... .....Warrenton, "
Peoples Bank.....Portsmouth, "
Shiloh Baptist Church.....Alexandria, "
Dr. W. M. Smith, office..... " "
W. W. Briggs .....Locust Dale, "
Tie & Brittingham, builders.....Norfolk, "
R. G. Hume & Bro., dealers.....Portsmouth, "
First Baptist Church.....Farmville, "
J. A. Walkins, parlors .....Fortress Monroe, "
L. Leonard, church.....Buckhannon, W. Va.
Raffner Bros.....Charleston, "
Chas. Packard, stores .....Port Townsend, Wash.
S. Beers.....Spokane Falls, "
Robt. Fargo, bank .....Lake Mills, Wis.
C. A. Dickhaut, architect.....Kenosha, "
Dan. Head & Co., bankers..... " "
J. F. Moyle, builder, church .....Union Grove, "
Methodist Episcopal Church.....Platteville, "
Pruesser Jewelry Co., store.....Milwaukee, "
C. Snashall, stores.....Evansville, "
Jno. Simon, stores.....Florence, "
A. Polderman, hotel ..... " "
First Baptist Church.....Kenosha, "
Davidson Opera House .....Milwaukee, "
J. E. Fawcett.....Platteville, "
First National Bank.....Ripon, "

NORTHROP'S PATENT

CAP SEAM IRON ROOFING

Possesses Features Superior to Any Other.

1st. In quality and weight of Iron.

2d. In method of fastening. Each sheet is fastened to the roof boards on both sides alike, and also at the ends of each sheet. No other roofing is so securely fastened.

3d. No nails, screws nor rivets are used through the sheets, and no holes punched in a sheet or seam for any purpose whatever, consequently each sheet can expand or contract with every change of temperature, without affecting the seams or drawing the fastenings.

4th. Any single sheet can be taken out, or the whole roof removed and used again without waste or loss.

5th. No especial tools are required, and any person of ordinary mechanical ability can do the work.

This is adapted for use over old shingles, which when left on the roof possess a peculiar and positive value, as the sheets rest only on the butts of the shingles, leaving an air space between and making the roof cooler in summer and warmer in winter. They also act as a deadener of sound, preventing noise and rattle during a storm. The additional weight is no objection, as the combined weight of iron and shingles is less than half the weight of slate roof, and it is just as securely fastened by using longer nails.

V CRIMP ROOFING.

These crimped irons are taking the place of corrugated iron, as it is cheaper and more durable, less liable to draw the nailings, and more pleasing in appearance, also more easily fitted around chimneys, &c., in roofs, or around doors and windows in siding.

OVAL CRIMP AND FINE CORRUGATED SIDING.

Just the thing for mills, elevators and warehouses, where a good fire-proof siding is wanted at a moderate price.

We also carry a good quality of steel in stock from which we can fill orders for above when desired, but for our work, recommend the iron above steel.

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A. NORTHROP & CO.

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